

SATYA N. ATLURI, UCI

BIOGRAPHICAL SUMMARY:

Satya Atluri is a designated UCI Distinguished Professor, in the Department of Mechanical & Aerospace Engineering at UCI. His professional interests lie in the areas of aerospace and mechanical engineering. His teaching and research interests at UCI lie in the disciplinary areas of: material/solid/structural mechanics at length scales of nano-to-macro; computational mathematics; theoretical, applied, and computational mechanics of solids and fluids at various length and time scales; computer modeling in engineering and sciences; meshless and other novel computational methods; material degradation, structural longevity, failure prevention, and health management.

On 26 January 2013, his motherland honoured him with the [*Padma Bhushan*](#), in the category of Science & Engineering. The President of India, *Dr. Pranab Kumar Mukherjee*, conferred upon Professor Satya Atluri the Padma Bhushan Award (India's National Medal of Science & Technology) at the Rashtrapati Bhawan (President's Residence) in New Delhi on April 20, in a Nationally Televised Ceremony in India.. You can watch the investiture ceremony here,<http://www.youtube.com/watch?v=pjwZMmr4rhs>. Atluri is the third recipient.

In December 2005, his former students, colleagues and friends celebrated his birthday at the [*Indian Institute of Technology, Madras*](#), in Chennai, India. This occasion was graced by [*Bharata Ratna*](#) Dr. [*APJ Abdul Kalam*](#), the then President of the Republic of India, who delivered a major policy address on technology & science.

He received Doctor of Science degrees from: [*Massachusetts Institute of Technology*](#) (earned,1969); [*National University of Ireland*](#) (1988, honoris causa); [*Slovak Academy of Sciences*](#) (2005, honoris causa); [*the University of Patras, Greece*](#) (2007, honoris causa), and the [*University of Nova Gorica, Slovenia*](#) (2009, honoris causa).

He is a [*Distinguished Alumnus of the Indian Institute of Science*](#), where he received his M.E degree in AerospaceEngineering in 1966 being awarded the Roll of Honours for being ranked first in his class. He received his B.E degree in Mechanical Engineering from the Government Engineering College, Kakinada, of the Andhra University, where he was ranked first in the entire university, in all branches of engineering.

He previously taught at: [*UCLA*](#) (Distinguished Professor); [*Georgia Tech*](#) (Institute Professor, Regents' Professor of Engineering, and Hightower Chair in Engineering); [*MIT*](#) (JC Hunsaker Professor); and [*the University of Washington*](#) (Assistant Professor).

He is a Distinguished Adjunct Professor of Multidisciplinary Engineering & Computer Science, at the [*King Abdulaziz University, in Jeddah*](#), Saudi Arabia. He is a Tsing Hua Honorary Chair Professor at [*the National Tsing Hua University*](#), in Taiwan, an Honorary Professor at [*the University of Patras*](#), and a World Class University Program distinguished professor at the [*Pusan National University, Korea*](#). Previously he was an Honorary Professor at [*the Tsinghua University*](#) in Beijing, [*the Korea Advanced Institute*](#)

of Science & Technology, Korea, and the [Hong Kong University of Science & Technology](#), Hong Kong.

He has been elected as a Faculty Fellow and Eminent Scholar, at the [Texas Institute for Advanced Studies](#), Texas A & M University, in College Station, Texas (2013).

He is Fellow of the [American Academy of Mechanics](#); Fellow of [AIAA](#); Fellow of [ASME](#); Honorary Fellow of the International Congress on Fracture, Fellow of [the Aeronautical Society of India](#); Fellow of [the Chinese Society of Theoretical & Applied Mechanics](#), and several other international academic and professional societies.

He was elected to membership in [the US National Academy of Engineering](#)(1996); [the India National Academy of Engineering](#)(1997);[the Academy of Sciences of the Developing World](#) (TWAS,Trieste, Italy, 2002);[the European Academy of Sciences](#)(2002); and [the National Academy of Sciences of Ukraine](#) (2009).

In 2013 he was elected as a Corresponding Member of [The Academy of Athens](#), Greece, the oldest academy in the world, in the Section of Physical Sciences. He was inducted in to the Academy of Athens in April 2014.

In August 2014 he was awarded by the American Institute of Aeronautics and Astronautics, the most coveted Prize, the **Walter J. and Angeline H. Crichlow Trust Prize**, which is awarded only once every four years, and carries an honorarium of \$100,000. The Citation for this award reads, ““*For lasting contributions to airframe structural integrity and durability analysis using novel computational methods (MLPG meshless methods) and micromechanics of materials genome.*”

In June 2014 the Institute for Scientific Information of Thompson Reuters ([www.isiwebofknowledge](#)) listed him as one out of 3000 of the world's most highly cited researchers in all science and engineering disciplines. Most notably two of his most frequent coauthors (his post-docs) since 2002, Drs Zhidong Han and C-S. Liu were also listed in this select list of 3000. ISI also noted that he co-authored 5 out of the 10 most highly cited papers in the Journal, Computational Mechanics (from all the published there since 1985), and 5 out of the 10 most highly cited paper in the journal, Computer Modeling in Engineering & Sciences (from all the papers published there since 1999).

He served as a Member on, as well as the Chair of [the US President's Committee for National Medals of Technology](#) (1992-1998); as a Member of the Research, Engineering, and Development Advisory Committee to the Administrator of [the Federal Aviation Administration](#) (1994-1998); Member, Board of Visitors, US Army Research Office (1996-1998); Vice-Chair, Peer Review Committee, Aerospace Section, [National Academy of Engineering](#) (1998-2000); Chair, Peer review Committee, Aerospace Section, [National Academy Of Engineering](#), (2000-2002); Member, Committee on Membership, [National Academy of Engineering](#) (2002-2005). He also served on the NRC Panels of the NAS/NAE, and Decadal Surveys of Aeronautics for NASA.

As of August 2013, his H-index (ISI) is 68, while his G-Index is 135. ***He was one of the original 93 Highly Cited Researchers in all branches of Engineering, identified in the Institute of Scientific Information in 2000 (covering the period 1980-2000).*** The total

citations to his work exceed 22,000, and in recent years, the average number of citations to his work is around 800 per year. He is currently listed in the Highly Cited list of researchers worldwide in both the categories of Engineering as well as Computer Science

Some notable recognitions he received include those from: the Crichlow Trust Prize from AIAA in 2014; one out of the 3000 most highly cited researchers in all scientific disciplines in the entire world, during 2002-2014, ISI, 2014; the President of the Republic of India, Padma Bhushan, 2013 (the 3rd Highest Civilian Decoration of the Republic of India, and the National Medal of Science & Technology of the Republic of India); ASME (the Nadai Medal, 2012); AIAA (the Structures, Structural Dynamics, and Materials Medal, 1988; the Pendray Aerospace Literature Medal, 1998, and the SDM Lecture Award, 1998); from the USA Federal Aviation Administration (“Excellence in Aviation Research” Award, 1998); from the ASCE (the Aerospace Structures and Materials Award, 1986); from the Society of Engineering Science (The Eringen Medal, 1995); from ICCES (the “ Hilbert Medal”, 2003, and the “ICCES Gold Medal”, 1991); from JSME, Japan (the Computational Mechanics Medal, 1993); from the Greek National Association of Computational Mechanics(The Computational Mechanics Medal, 1998); from JSPS, Japan (JSPS Fellow, 1989); from the US Secretary of Commerce (Distinguished Service Award, the President’s National Medal of Technology Committee, 1998); from Georgia Tech (the annual Distinguished Professor Award, 1986; and twice the annual Outstanding Researcher Awards, 1991 and 1993). From Sigma-Xi (the Sustained Research Award, 1988); from the Science Citation Index (one of 100 most highly cited researchers in engineering, 2000); from the National Academy of Engineering (Technical Achievement Award, 1995). He has been a Midwestern Mechanics Lecturer (1989), as well as a Southwestern Mechanics Lecturer (1987).

He founded and was/is the Editor-in-Chief of many journals: [Computational Mechanics](#) (1986-2000); [CMES: Computer Modeling in Engineering & Sciences](#) (currently ranked as the First in a group of 68 journals in the general category of Multidisciplinary Engineering, by SCI); [CMC: Computers, Materials & Continua](#)(currently ranked as Tenth in a group of 68 journals in the general category of Multidisciplinary Engineering, by SCI); [MCB: Molecular & Cellular Biomechanics](#); [SDHM: Structural Durability & Health Monitoring](#); [SL: Structural Longevity](#); [ACM: Advances in Computational Mechanics](#). He is on the Editorial Advisory Boards of many journals, including the AIAA Journal; the Tsinghua Journal of Science & Technology, Taiwan’s Marine Science & Technology, etc.

In 1986, Professor Atluri founded a scientific association, “[ICCES: International Conference on Computational & Experimental Engineering & Sciences](#)”. ICCES held annual meetings of scientists from various countries in general, and Asia in particular: Tokyo (1986); Atlanta (1988); Melbourne, Australia (1991); Hong Kong (1992); Hawaii (1995); Costa Rica (1997); Atlanta (1998); Los Angeles (2000); Puerto Vallarta, Mexico (2001); Reno, Nevada (2002); Corfu, Greece (2003); Madeira, Portugal (2004); Chennai, India (2005); Miami (2007); Hawaii (2008), and Phuket, Thailand (2009). Las Vegas (2010), Nanjing, China (2011), Crete, Greece (2012), and Seattle, USA (2013)

ICCES has established [several international awards](#): 1. Satya N. Atluri Gold Medal, (http://en.wikipedia.org/wiki/Satya_N._Atluri_ICCES_Medal) 2. Hilbert Medal, 3. Eric

Reissner Medal, 4. THH Pian Medal, 5. The W-Z. Chien Medal, 6. The K Washizu Medal, 7. The Sejong Award 8. AS Kobayashi Medal for Young Scientists in Experimental Research 9. S. Ramanujan Medal for Outstanding Young Scientists in Computation, 10. S. Chandrasekhar Medal for Outstanding Young Scientists in Theory, etc.

The Satya N Atluri Medal (http://en.wikipedia.org/wiki/Satya_N._Atluri_ICCES_Medal), which was established in 2010, has been awarded to Subra Suresh (http://en.wikipedia.org/wiki/Subra_Suresh), Ratan Tata (http://en.wikipedia.org/wiki/Ratan_Tata), Guangjing Cao, President, China Three Gorges Company; Henry T.Y Yang (http://en.wikipedia.org/wiki/Henry_T._Yang), and John White (Chancellor Emeritus, University of Arkansas)

He is the Founder & Chairman of FSL: A Global Forum on Structural Longevity (Health Management, Failure Prevention, & Infrastructure Rehabilitation), <http://fsl.icces.org>

Over the past 45 years, Professor Atluri has mentored more than 350 doctoral students, post-doctoral scholars, visiting scholars, and visiting professors, from all across the world. All of these occupy important positions (such as university presidents, deans, professors, government agency directors, corporate owners and officers) in governments, industries, and universities around the world.

He has authored or edited 60 monographs, and has published more than 800 archival papers in the general discipline of mechanical and aerospace engineering.

For the past 45 years, his research has been supported by: NSF, DARPA, the Office of Naval Research, The Air Force Office of Scientific Research, The Army Research Office, The Army Research Labs, NASA, the Federal Aviation Administration, The Department of Energy, The Nuclear Regulatory Commission, The Edwards Air Force Base, The Wright-Patterson Air Force Base, and many others. The total funding is about \$60 Millions

Further details of his CV may be found at the database of highly cited researchers maintained by ISI: www.highlycited.com

For a list of his publications, see his profile at Google Scholar: <http://scholar.google.com/citations?user=QoJ7FsgAAAAJ> or in CARE (Center for Aerospace Research and Education) website <http://care.eng.uci.edu/pubs.htm>.

Biosketch

Name: Satya N. Atluri
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E-mail:satluri@uci.edu

Positions: UCI Distinguished Professor;
Director, International Collaboratory for Fundamental Studies in Engineering & Sciences (ICES), UCI.
Director, Center for Aerospace Research and Education (CARE), UCI.

Degrees: Sc.D, M.I.T (1969);
D.Sc (h.c), Ireland (1988);
D.Sc (h.c), Slovakia (2006);
D.Sc (h.c), Greece (2007);
D.Sc (h.c), Slovenia (2009)

Academic Experience:

<i>University of California, Irvine</i>	
Samueli/Theodore Von Karman Chair in Aerospace Engineering	2002-2009
UCI Distinguished Professor	2009-
<i>University of California, Los Angeles</i>	
Distinguished Professor (Simply means Above-Scale)	1996-2002
<i>Indian Institute of Science, Bangalore, India</i>	
Satish Dhawan Chair Visiting Professor of Aerospace Engineering	2000-
<i>National Tsing Hua University, Hsinchu, Taiwan</i>	
Tsing Hua Honorary Chair Professor	2008-
<i>Tsinghua University, Beijing</i>	
Honorary Professor	2002-
<i>Georgia Tech.</i>	
Institute Professor,	1991-1998
Regents' Professor of Engineering,	1979-1998
Hightower Chair in Engineering,	1996-1998
Director, FAA Center of Excellence for Aging Aircraft,	1992-1998

Director, Center for Computational Modeling,	1979-1998
Professor of Mechanics,	1977-1979
Associate Professor	1974-1977
<i>King Abdul Aziz University, Jeddah, Saudi Arabia</i>	
Distinguished adjunct Professor of Multidisciplinary Engineering & Computer Science	2013-
<i>Texas A & M University</i>	2013-2016
Faculty Fellow & Eminent Scholar, Texas Institute for Advanced Studies	
<i>Pusan National University, South Korea</i>	
Distinguished Professor, World-Class Universities Program, Korea Science Foundation	2009-2014
<i>University of Patras, Greece</i>	
Distinguished Adjunct Professor	2007-
<i>Korea Advanced Institute of Science and Technology,</i>	
Adjunct Professor,	1995-
<i>Hong Kong Univ. of Science & Technology,</i>	
Visiting Professor, (one month each)	1993,1997
<i>Massachusetts Institute of Technology</i>	
Research Associate,	1969-1971
Jerome Clarke Hunsaker Professor of Aeronautics,	1990-1991
<i>University of Tokyo</i>	
Japan Soc. For Promotion of Science, Distinguished Fellow,	1988
<i>Emei Jiaotong University, People's Republic of China</i>	
Consulting Professor,	1988-
<i>University of Washington</i>	
Assistant Professor of Aeronautics and Astronautics,	1971-1974
<i>Boston University</i>	
Guest Lecturer	1970

Honors, Awards, and other Professional Recognition:

Walter J. and Angeline H. Crichlow Trust Prize, AIAA (given once every 4 years, and carries an honorarium of \$100,000), announced August 2014 and to to be given in January 2015, with the citation: “For lasting contributions to airframe structural integrity and durability analysis using novel computational methods (MLPG meshless methods) and micromechanics of materials genome.” He donated the \$100,000 prize money to an elementary school, The Center for Early Education of Los angeles, to promote early education in the Sciences, Technology, Engineering, Arts, and Mathematics (STEAM())

PADMA BHUSHAN, National Medal of Science & Engineering, Awarded by the President of the Republic of India (The Third Highest Civilian Decoration by the President of India); Decorated in April 2013

Elected as **Corresponding Member, The Academy of Athens**, the world’s oldest Academy dating back to Plato, in April 2013 and Inducted in april 2014

The Nadai Medal, the highest award of the Materials Division of ASMW, “ for sustained contributions to archival literature and the development of widely used software for computational and analytical modeling of degradation, failure, penetration, fracture, and integrity of materials and structures in the mechanical, nuclear and aerospace industries”, December 2012

Elected as Fellow & Eminent Scholar, Texas Institute for Advanced Studies, Texas A & M University, January 2014-

Listed as **one out of 3000 of The Most Highly cited Researchers from all scientific disciplines from the entire world**; Based on an analysis of all the world's scientific literature during 2002-2014; Insitute of Scientific Information; Thompson Reuters, June 2014. Also two of his coautors, Zhidong Han and Chien-Shan Liu, who wrote all of their papers with him during 2002-2014 were also listed in this exclusive Highly Cited Authors List.

According to the Science Citation Index (ISI, Thompson Reuters), **5 out of the 10 Most Highly Cited Papers in the journal, Computational Mechanics (Springer), during the 30 years 1985-2014, were coauthored by Atluri**

According to the Science Citation Index (ISI, Thompson Reuters), **6 out of the 10 Most Highly Cited Papers in the journal, Computer Modeling in Engineering & Sciences (Tech Science Press), during the 15 years 1999-2014, were coauthored by Atluri**

Elected as Distinguished Adjunct Professor of Multidisciplinary Engineering & Computer Science, King Abdul Aziz University, Saudi Arabia, 2014.

As of January 1st 2014: H-index of 68, and G-Index of 135 (according to www.isiknowledge.com and [Google Scholar](http://Google.Scholar)). These indices are the highest in the Henry Samueli School of Engineering, and the School of Computer Science, at UCI. 2013

Number of citations to the papers by SN Atluri: Total number of over 20,000; Recent years, over 800 in 2010, 875 in 2009, 700 in 2008.

Listed in Highcited.com of (www.isiknowledge.com) in the categories of Engineering (all disciplines) and Computer Science. Listed in the original list of 100 Most Highly Cited Researchers in Engineering, identified by ISI in 2000, and continues to be so listed. 2013

Reviewer, Large-size research proposals from Taiwan, Qatar, Saudi Arabia, Greece, Austria, etc.

"From the Mega to the Nano: Computer Modeling in Engineering & Sciences" 90 Minutes Lecture, Nationally Televised to all universities and research labs in Taiwan, National Center for Super-computing, Hsinchu, Taiwan (April 2010). 2010

"From the Mega to the Nano: Computer Modeling in Engineering & Sciences" 3-Hour Lectures, BRAIN-KOREA 21 Program, Korea National Science Foundation (September 2010). 2010, Televised in South Korea

"A Fictitious Time Integration Method for the Numerical Solution of the Fredholm Integral Equation and for Numerical Differentiation of Noisy Data, and Its Relation to the Filter Theory," has been identified as a **"New Hot Paper"** for having the highest percentage increase in citations in [Essential Science](#)

Indicators SM from Thomson Reuters, in the field of Computer Science. A Podcast of 30 minutes by SN Atluri was recorded and posted by Thomson Reuters at their website (July 2010). 2010

“*Meshless Methods & other Novel Algorithms*”, Plenary Lecture, International Conference on Meshless Methods, Busan, Korea, (August 2010). 2010

“*Satya N Atluri/ ICCES Medal*” (http://en.wikipedia.org/wiki/Satya_N._Atluri_ICCES_Medal) for 2010 awarded to Dr. Ratan Naval Tata (Chairman, Tata Sons, the world’s largest industrial conglomerate), April 2010, Las Vegas NV, Plenary Lecture by Ratan Tata, introduced by SN Atluri (<http://www.icces.org/icces10/plenary.html>) (Also introduced by US Senator Harry Reid of NV) (Dr. Tata subsequently donated \$50 Millions to Harvard University, in October 2010). 2010

Elected as Tsing Hua Honorary Chair Professor, National Tsing Hua University, Hsinchu, Taiwan. 2009-2012

Elected as Type 3 Distinguished Scholar, World Class Universities Program, Korea Science Foundation, Appointed for 5 years, (one of 81 Nobel Laureates, NAS & NAE Members, etc., world-wide, invited by the Government of Korea for short visits). 2009-2014

“*From the Mega to the Nano: Computer Modeling in Engineering & Sciences*”, 90 Minutes Lecture, Given on Slovenian Television, Ljubljana, Slovenia (October 2009). 2009
(http://videlectures.net/zv_ung_atluri_fmtn/)

The journal, “CMES: Computer Modeling in Engineering & Sciences”, founded by him in 2000, and for which he is currently the Editor-in-Chief, was ranked 2nd in a group of 68 journals in the category of “Multidisciplinary Engineering”, by ISI. 2009

The journal, “ CMC: Computers, Materials, & Continua”, founded by him in 2004 , and for which he is currently the Founding & Honorary Editor, was ranked 10th in a group of 68 journals, in the category of “Multidisciplinary Engineering”, by ISI; 2009

Doctor of Science, Honoris Causa, University of Nova Gorica, Slovenia. 2009

Elected as Foreign Member, National Academy of Sciences, Ukraine. 2009

Elected as Honorary Member, Croatian Society of Theoretical Mechanics. 2009

Plenary Lecturer, International Conference on Meshless & Other Novel Computational Methods, Ljubljana, Slovenia, (August 2009). 2009

Plenary Lecturer, Croatian Congress on Theoretical & Applied Mechanics, Dubrovnik, Croatia, (September 2009) 2009

Founder, International Journal, SL: Structural Longevity (Health Management, Failure Prevention and Infrastructure Rehabilitation). 2009

Appointed as Member, Global Advisory Group, Lloyd's Register Educational Trust Research Centre of Excellence, Pusan National University, Korea. 2008

Invited Judge, Austrian Science Foundation Hearings (to decide on funding by various Austrian agencies), Vienna, Austria. 2008

Chosen to Appear on Trading Cards distributed in High Schools throughout the USA, by the Missile Defense Agency (along with such other peers as von Karman, Werner Von Braun, etc). 2008

Founder & Editor-in-Chief, ACM: Advances in Computational Mechanics (A Series of Advanced Monographs). 2008

Founder & Chairman, Global Forum on Structural Longevity (Health Monitoring, Failure Prevention, & Infrastructure Rehabilitation) <http://fsl.icces.org> 2008

Honored with the Establishment of the Satya N. Atluri Medal (a Gold Medal, and a \$5000 Stipend), for Life-time Achievement, by ICCES (2009 Medalist: Professor & Dean of Engineering Subra Suresh, MIT, 2010 Medalist: Ratan Tata, Chairman of Tata Sons). 2008

Plenary Lecturer, International Conference on Meshless & Other Novel Computational Methods, Suzhou, China, (October 2008). 2008

Doctor of Philosophy, Honoris Causa, University of Patras, Patras, Greece. 2007

Honorary Professor, Aerospace Engineering, University of Patras, Greece. 2007

Doctor of Sciences, Honoris Causa, Slovak Academy of Sciences. 2006

Honoree at a 60th Birthday International Symposium (organized by former students & collaborators), Kobe, Japan, (21-23 April 2005). 2005

Honoree at a 60th Birthday International Conference(organized by former students & Collaborators), IIT-Madras, India, 1-6 December 2005 (*Inaugural Address by His Excellency Dr. Abdul Kalam, President of the Republic of India*) 2005

Honoree, with the establishment of the “ Satya N. Atluri Chair in Aerospace Engineering” at the Indian Institute of Science, Bangalore, India. 2005

Distinguished Institute Speaker (5 Seminars), Computational Sciences Program, Virginia Tech, (4-8 April 2005). 2005

Distinguished Alumnus, Indian Institute of Science, Bangalore, India (for the year 2001, one selected per every year). 2005

ISI- FAST MOVING FRONTS: Atluri’s research on the Meshless MLPG Method has been cited as a “Fast Moving Front”, in the Category of Computer Science, by the Institute of Scientific Information (<http://www.esi-topics.com/fmf/january2005.html>). This list of Fast Moving Fronts was generated by a comparison of data in the periods January 1, 1999 to June 30, 2004 and January 1, 1999 to August 31, 2004. 2005

Honorary Editor, “ Structural Integrity & Durability” 2005

Atluri's research on meshless & MLPG methods has been Ranked 3 out of 108 ((sorted by citations) in RESEARCH FRONTS RANKINGS IN COMPUTER SCIENCE, in a 11 year period ending 31 December 2003 http://www.in-cites.com/analysis/03-sixth-com.html#Highly%20Cited%20Papers .	2004
Editor-in-Chief, “ Molecular & Cellular Biomechanics”	2004
Honorary Editor, “ Computers, Materials & Continua”	2004
Fellow, Third World Academy of Sciences, Trieste, Italy	2003
<i>The HILBERT MEDAL</i> for his pioneering contributions to the development of meshless methods in general, and the MLPG method in particular, for computational Mechanics".	2003
Honorary Member, World Innovation Foundation	2003
Member, European Academy of Sciences (Brusselles)	2002
Member, Scientific Committee, European Academy of sciences	2002
“Clark B. Millikan Visiting Professor of Aeronautics”, Caltech.	2002- 2003
Member, Committee on Membership, National Academy of Engineering	2002-2005
Guest Professor, Tsinghua University, Beijing, China	2001-
Chair, Peer review Committee, Aerospace Section, National Academy Of Engineering.	2000-2002
"Highly Cited Researcher", (One of the 93 Most cited Researchers in ALL branches of engineering, in the years 1981-1999) Science Citation Index, Institute for Scientific Information.	2000- current
Faculty/Staff Partnership Award, UCLA	2000
Founder & Editor-in-Chief, CMES: Computer Modeling in Engineering & Sciences (ranked by the Science Citation Index to be the 3 rd out of 67 Journals world-wide, in its discipline)	2000
"Satish Dhawan Visiting Chair in Aerospace Engineering", Indian Institute of Science, Bangalore, India.	2000
The National Medal of Technology Citation for Distinguished Service, U.S. Secretary of Commerce.	1999
Honorary Technical Editor, Aeronautics & Astronautics, Encyclopedia of Life Support Systems, UNESCO.	1999
Diploma & Gold Medal, Greek National Association for Computational Mechanics.	1999
Vice-Chair, Peer Review Committee, National Academy of Engineering.	1998-2000
Structures, Structural Dynamics and Materials Lecture, “Structural Integrity & Durability”, AIAA, SDM Conference, Long Beach (one of more than 150 general lectures given at various conferences over the years)	1998

Chair, Selection Committee for National Medals of Technology, U.S. Department of Commerce & The White House	1998
Elected Fellow, International Association for Computational Mechanics	1998
Excellence in Aviation Award, from the Administrator, Federal Aviation Administration(National Award, Given every now & then)	1998
Pendray Aerospace Literature Award, AIAA	1998
Royal Society (UK) Ping To Visiting Professor, HKUST	1998
Foreign Fellow, Indian National Academy of Engineering	1996
Julius Hightower Chair in Engineering, Georgia Institute of Technology [a \$2,500,000 endowed Chair]	1996
A.C. Eringen Medal, Society of Engineering Science, (Honoree at a special symposium, with papers appearing in the volume, "Contemporary Research in Engineering Science", Ed. R. Batra, Springer, 1995).	1995
Distinguished Service Award, FAA Administrator	1995
Member, U.S. National Academy of Engineering	1995
Fellow, U.S. Association for Computational Mechanics	1995
Outstanding Achievement Award, U.S. National Academy of Engineering	1995
Appointed Member, Research, Engineering & Development Advisory Committee, Federal Aviation Administration	1994-1998
Honorary Fellow, International Congress on Fracture, "in recognition of outstanding contributions to the field of fracture"	1993
"Distinguished Aero-Alumnus Award", Department of Aerospace Engineering, Indian Institute of Science, Bangalore, India: also Inaugural Lecturer (C.V.J. Rao Memorial Lecture), 50th Anniversary Celebration of the Aerospace Engineering Department, Indian Institute of Science, (10 December 1992).	1992
ICES Gold Medal, International Conference on Computational Engineering Science, established in 1992, for "his seminal and sustained contributions to computational engineering science, and for his laudable service to the computational mechanics community"	1992
Presidential Appointee, President's Committee for Evaluation of Nominees or the National Medal of Technology, The White House	1992
Computational Mechanics Division Medal, Japan Society of Mechanical Engineers, established in 1990, for "his long-standing contributions to researches and services in the computational mechanics field"	1991
Fellow, A.I.A.A.	1991

Fellow, Aeronautical Society of India	1991
Institute Professor, Georgia Institute of Technology. (One of a group of 6 to have been appointed for the first time in the 107-year history of Georgia Tech)	1991
Outstanding Faculty Research Award, Georgia Institute of Technology [\$5,000 award]	1991
Who's Who in Technology Today, J. Dick	1990- Present
Jerome Clarke Hunsaker Professor, Aeronautics and Astronautics, M.I.T.	1990
Who's Who in Georgia, Highlands Foundation, Atlanta	1990
Constantin Caratheoradory Lecture, Polytechnic of Central London (Chair: J.H. Argyris)	1989
Doctor of Science (honoris causa), degree conferred by the National University of Ireland, Dublin, Republic of Ireland	1989
Midwestern Mechanics Lecturer (A Consortium of Eight Universities in Midwestern U.S.A.)	1989
Computational Sciences (Materials Modeling) Road Map Team, Aerospace Industries Association	1989
American Men and Women of Science	1988- Present
International Men of Achievement, Cambridge, England	1988- Present
Personalities of the World, American Bio Institute	1988- Present
Who's Who in the World, Marquis	1988- Present
Structures, Structural Dynamics and Materials Medal, awarded by A.I.A.A. for "his pioneering and sustained contributions to fracture mechanics, materials evaluation, finite and boundary element methods for linear and nonlinear analysis of aerospace structures, and his work on the control of large space structures"	1988
Distinguished Visiting Professor Award, awarded by Japan Society for the Promotion of Science	1988
Guest of Prime Minister of India (The late Mr. Rajiv Gandhi) to discuss India in the year 2000.	1988
Monie Ferst Memorial Award for Sustained Research, Society of Sigma Xi	1988
A.I.A.A. Survey Paper Citation (Advances and Trends in Computational Structural Mechanics), A.I.A.A., (joint with A.K. Noor)	1987
Michael Sadowsky Mechanics Lecturer, Rensselaer Polytechnic Institute Southwest Mechanics Lecturer (Six Universities in the Southwest U.S.A.)	1987
Aerospace Structures and Materials Award, awarded by A.S.C.E. for "his exceptional contributions to aerospace technology"	1986

Distinguished Professor Award, Georgia Institute of Technology, established in 1985 by the Class of 1934, for "his excellence in teaching, inspiration to students, and intellectual integrity" [\$20,000 Award].	1986
Advisory Professorship (Honorary), Southwest Jiaotong University, Emei, China	1986
Fellow, A.S.M.E.	1986
Outstanding Faculty Research-Author Award, Georgia Institute of Technology [\$5,000 award]	1986
Who's Who in Frontiers of Science & Technology, Marquis	1984- Present
A.I.A.A. Service Citation (Associate Editor, A.I.A.A. Journal), A.I.A.A.	1983
Who's Who in Engineering	1982- Present
Who's Who in America, Marquis	1982- Present
Fellow, American Academy of Mechanics.	1980
Regents' Professor of Engineering, Georgia Institute of Technology	1979
Roll of Honors, Indian Institute of Science, Bangalore, India	1966
Lazarus Prize, Andhra University, India	1965
V.K. Murti Gold Medal, Andhra University, India	1964

Professional Activities and Affiliations:

Organizer, YC Fung's (UCSD) 90 th birthday, UCSD	2008
Chair, ICCES Conference, Honolulu, Hawaii	2008
Chair, ICCES Conference, Miami, FL	2007
Scientific Chair, International Conference on Meshless & Other Novel Computational Methods, Suzhou, China	2008
Scientific Chair, International Conference on Meshless Methods, Patras, Greece	2007
Nominator of Leonard Kleinrock (UCLA) for the President's National Medal of Science (successful, Medal Awarded in 2007)	2006
Member, NRC Panel on Decadal Study of Aeronautics, National Academy of sciences	2005
Chair, Scientific Committee, USA-India Science & Technology Forum, Workshop on "Engineering & Prototyping of Nanosystems & Nanostructured Materials: Computation, Experiment & Theory", Jaipur, India, 8-10 December 2005	2005
Chair, Scientific Committee, USA-India Science & Technology Forum, Workshop on "Seismology, Tectonophysics, and Tsunamis", Madras, India, 1-6 December 2005	2005
Chair, Scientific Committee, Office of the President of the University of California, To prepare a Road-Map for UC/National Labs research on "Engineering Novel Materials:	

Computation, Experiment & Theory” , for the next 20 years.	2005
Co-Chair & Organizer, “ California: Prosperity Through Technology”, National Academies Beckman Center	2004
Chair, & Organizer, National Academies Workshop on “ Mechanics & Chemistry of Biosystems”	2004
Chair & Organizer, US Army Workshop, on “ Mechanics & Chemistry of Biosystems”	2004
Chair & Organizer, “ Preserving US Superiority in the 21 st Century Civil Aviation”, NASA, OSTP, Beckman Center of the National Academies	2004
Panelist, “ President’s Vision on Space Exploration”, National Space Engineering Board	2004
Elected as Fellow, Third World Academy of Sciences	2003
Honorary Member, World Innovation Foundation	2003
Member, Scientific Committee, European Academy of Sciences (Brussels)	2003
Member, Committee on Membership, US National Academy of Engineering	2000-2005
General Chair, ICCES’03, Corfu, Greece	2003
General Chair, ICES’02, Reno, Nevada	2002
General Chair, ICES’01, Puerto Vallarta, Mexico	2001
General Chair, ICES’2K, Los Angeles, CA	2000
Chair, Peer Review Committee, Aerospace Section, National Academy of Engineering	2000-2002
Vice-Chair, Peer Review Committee, Aerospace Section, National Academy of Engineering	1999-2000
Founder, International Society for Computational Engineering & Sciences	1999
Founder & Editor-in-Chief, "CMES: Computer Modeling in Engineering & Sciences", Tech. Science Press	1999
Editorial Advisory Board, AIAA Journal	1998 – Present
Fellow, International Association for Computational Mechanics	1998 - Present
Chair, Selection Committee, White House, President's National Medal of Technology	1998
Panelist, 50th Annual Meeting of the American Association for the Advancement of Science, White House Panel on Science & Technology Needs of the 21st Century,	1998
Initiator, CASTLE-21 (California Alliance for Sustained Technological Leadership and Excellence for the 21st Century)	1998
General Chairman, ICES-98, Atlanta, GA	1998
Editorial Board, Microcomputers in Civil & Infrastructure Engg.	1997 - Present
General Chairman, ICES-97, San Jose, Costa Rica	1997
Elected, Foreign Fellow, Indian National Academy of Engineering	1996 - Present
Member, National Academy of Sciences, National Research Council Committee on Aging of U.S. Air Force Fleet	1996 - 1998
Board of Visitors, U.S. Army Research Office	1996 -1998
Elected, Member, U.S. National Academy of Engineering	1995 - Present
Editor-in-Chief, Computer Modeling and Simulation in Engineering, Sage-Scientific Publications	1995 - Present
Fellow and Founding Member, U.S. Association for Computational Mechanics	1995 - Present
General Chairman, ICES-95, Big Island, Hawaii	1995
Participant, Renaissance Weekends (with about 200 leaders from politics, government and academia), Hilton Head, SC and Aspen, CO	1994 - Present
Editorial Board, Archives for Computational Methods in Engineering, CINME, Barcelona, Spain	1994 - Present
Member, Research, Engineering, and Development Advisory Committee, FAA	1994 - 1998
Liaison between IUTAM and IACM	1994
Member, Executive Council, International Association for Computational Mechanics	1994
Honorary Fellow, International Congress on Fracture	1993
Editorial Board, Korea Soc. Mech. Engg. International Journal	1992 - Present
General Chairman, International Conference on Computational Engineering Science, Hong Kong	1992
General Chairman, International Conference on Structural Integrity of Aging Airplanes,	

Atlanta, GA	1992
Member, Selection Committee, White House, President's National Medals of Technology	1992 – 1998
Fellow, A.I.A.A.	1991 - Present
Fellow, Aeronautical Society of India	1991 - Present
General Chairman, International Conference on Computational Engineering Sciences, Melbourne, Australia	1991
Scientific Committee, IUTAM Symposium on Finite Plasticity, Univ. of Hannover, Germany	1991
Editorial Board, Journal of the Aero. Society of India	1990 - Present
Member, Executive Committee, International Association Boundary Elem. Mech.	1990 - Present
Member, Executive Council, Int. Assoc. for Comp. Mech.	1990 - Present
International Scientific Committee, 2nd International Congress on Computational Mechanics, Stuttgart, West Germany	1990
General Chairman, International Conference on Structural Integrity, Bangalore, India	1990
Co-Chairman, 22nd National Symposium on Fracture (ASTM), Atlanta, GA	1990
Chairman, International Symposium on Structural Integrity of Aging Airplanes, Atlanta, GA	1990
International Steering Committee, ICENSOFT-89, Delhi, India	1989
International Scientific Committee, IBEM Symposium on Boundary Element Methods, Hartford, CT	1989
International Steering Committee, Plasticity'89, MIE University, Japan -	1989
International Scientific Committee, IUTAM/IACM Symposium on Discrete Methods in Mechanics, Vienna, Austria	1989
Chairman, Frontiers in Computational Mechanics, MIT, Cambridge, MA	1989
Member, Panel of Independent Experts on Structures, Federal Aviation Administration	1989 - Present
Member Materials Sciences Road Map, Aerospace Industries Association, dedicated to the preservation of U.S. Aerospace Industry superiority in the year 2000 and beyond	1989
Member, Steering Committee 7th Quadrennial International Conference on Fracture, Houston, TX	1989
International Scientific Committee, JASCOME Symposium on Boundary Element Methods, Tokyo, Japan --	1988
Member, Executive Committee, International Association for Boundary Element Methods	1988
General Chairman, 6th U.S. Air Force Forum on Space, Atlanta, GA	1988 - Present
Editorial Board, Acta Mecanica Solida Sinica, Pergamon Press	1988 – Present
General Chairman, International Conference on Computational Engineering Science, Atlanta, GA	1988
Adviser, "Vision for 2000", Science & Technology, to Prime Minister Rajiv Gandhi of India	1988
Member, Organizing and Technical Committees, "Aris Phillips Memorial Symposium on Plasticity", Gainesville, FL	1987
Founding Member, Member of the Executive Committee, U.S. Association for Computational Mechanics	1987
Fellow, A.S.M.E.	1986 - Present
Editor, Springer Series on Computational Mechanics, Research Monographs, Published by Springer-International	1986 - Present
Editor-in-Chief, International Journal for Computational Mechanics, Springer-Verlag	1986 - Present
Editorial Board, Applied Mathematical Modeling, Elsevier	1986 - Present
Editorial Board, Applied Mechanics Reviews, American Society of Mechanical Engineers	1986 - 1989
Member, International Advisory Committee, Int'l. Conference on Boundary Element Methods in Engineering, Tsing Hua University, Beijing, People's Republic of China	1986
General Chairman, Organizing Committee, 1st International Conference on Computational Mechanics, Tokyo, Japan	1986
General Chair, ICES Series of Conferences	1986 - Present

Organizer and Chairman, "Special Symposium on Computational Methods in Damage and Fracture Mechanics" at the First World Congress on Computational Mechanics, Austin, TX	1986
General Chairman, International Conference on Computational Mechanics.- Keynote lecture at opening ceremony and at banquet.-This series of conferences has been conceived by S.N. Atluri, Tokyo, Japan	1986
Fellow, Chinese Society of Theoretical and Applied Mechanics	1985 - Present
Editorial Board, International Journal for Plasticity, Pergamon Press	1985 - Present
Chairman, Organizing Committee, Symposium on Recent Advances in Computational Mechanics, Joint ASME-ASCE Engineering Mechanics Conf., Sandia National Labs, Albuquerque, NM	1985
Member, Technical Advisory Panel, International Conference on Numerical Methods in Engineering (Theory & Application), Univ. College of Swansea	1985
Editorial Board, Computers & Structures, Pergamon Press	1984 - Present
Editorial Board, Engineering Fracture Mechanics, Pergamon Press	1984 - 1986
Organizer, Session on Passive Control, ASME Winter Annual Meeting, New Orleans, LA	1984
Member, International Steering Committee, Int'l. Conference on Finite Elements in Computational Mechanics Bombay, India,	1984
Organizer, six sessions on Mathematical and Computational Methods, ASCE Engineering Mechanics Specialty Conference, Univ. of Wyoming, Laramie	1984
Member, Advisory Committee, ASCE Engineering Mechanics Specialty Conference, University of Wyoming, Laramie, Wyoming	1984
Organizer, Three Sessions on Computational Mechanics, ASCE Spring Conv., Atlanta, GA	1984
Organizer, Session on Applied Fracture Mechanics, ASCE Fall Convention, San Francisco, CA	1984
Organizer, International Conference on Dynamic Fracture (in honor of A.S. Kobayashi), San Antonio, TX	1984
Organizer, Three sessions on Math Methods in Solid Mech., ASCE National Conv., Houston, TX	1983
Co-Chairman, US-China Workshop on Advances in Computational Mech., Dalian, People's Republic of China	1983
Organizer, Symposium on Recent Developments in Computational Methods in Nonlinear Solid Mechanics, ASME, Applied Mechanics Conference, Houston, TX	1983
Organizer, Three Sessions on Recent Research in Computational Mechanics, ASCE Engineering Mechanics Specialty Conference, Purdue University	1983
Associate Editor Journal of the American Institute of Aeronautics and Astronautics, AIAA	1983 - 1987
Panelist, Selection Panel for Presidential Young Investigators, National Science Foundation (1983 and 1986)	1983 - 1986
Co-Organizer, Symposium on Infinite Domain Methods, Applied Mechanics Division, ASME	1983
Chairman, NSF Workshop on "Damage and Fracture Mechanics", Stone Mountain, GA	1982
Chairman, Committee on Computing in Applied Mechanics, Applied Mechanics Division, American Society of Mechanical Engineers	1981 - 1985
Associate Editor, Journal of the Engineering Mechanics Division, American Society of Civil Engrs	1981 - 1984
Chairman, Committee on Computational Mechanics (Mathematical Methods), Engineering Mechanics Division, American Society of Civil Engineers	1981 - 1984
Chairman, Organizing Committee, International Symposium on Hybrid and Mixed Finite Element Methods, sponsored by NSF, ONR, DOT, and ARO, Atlanta, GA	1981
Founding Member, Member of Council of Charter Members, International Association of Computational Mechanics	1980 - Present
Fellow, American Academy of Mechanics	1980 - Present
Member, Committee on Computational Mechanics, Society of Engineering Science	1980 - 1986
Organizer, Session on Fracture Mechanics, Society of Engineering Science Meeting, Atlanta, GA	1980

Member, Organizing Committee, 21st-AIAA/ASME/ASCE/AHS Structures, Structural Dynamics and Materials Conference, American Institute of Aeronautics and Astronautics, Seattle, WA	1980
Member, Organizing Committee and Editorial Committee, 11th SE Conference on Theoretical and Applied Mechanics, University of Tennessee	1980
Member, Scientific Committee, International Association for Structural Mechanics in Reactor Technology	1979 – 1992
Organizer, Symposium on Nonlinear and Dynamic Fracture Mechanics, Applied Mechanics Div., ASME	1979
Member, Organizing Committee, Society of Engineering Sci. Meeting, Northwestern University, Evanston, IL	1979
Editorial Board, International Journal for Numerical Methods in Engineering, Wiley	1979 - Present
Organizer, More than 70 Sessions and Symposia for ASME, ASCE and AIAA	1975 - Present

Archival Publications

A. Books & Monographs (Authored & Edited)

Selvadurai, A.P.S.; Atluri, S. N.,(Eds) "Contact Mechanics in the Engineering Sciences", Tech Science Press, 2010

Sarler B., , Atluri S. N.,(Eds) Recent Studies in Meshless & Other Novel Computational Methods, Tech Science Press, 2010

Atluri S.N., Sladek,J,(Eds) “ Advances in the MLPG Meshless Methods” 325 pages, Tech Science Press, 2009

Pepper,D. W.; Atluri, S. N.,(Eds) Advances in Computational & Experimental Engineering and Sciences, Tech Science Press, 2010

Tong, P; Atluri, S.N,(Eds) “ Molecular & Cellular Biomechanics”, A Monograph in Honor of the 90th Birthday of Professor Yuan-Cheng Fung, UCSD, 690 pages, Tech Science Press 2008

Atluri,S.N., Methods of Computer Modeling in Engineering & the Sciences-Part I, 480 pages, Tech Science Press 2005.

Atluri, S.N., The Meshless Method(MLPG) for Domain & BIE Discretizations, 2004, 680 pages, Tech Science Press .

Atluri, S.N., and Shen, S., The Meshless Local Petrov-Galerkin (MLPG) Method, 2002, 440 pages, Tech Science Press.

Sivakumar MS, Meherprasad A, Narayanan S, Rajendran, R, Atluri SN: Proceedings of ICCES05, IIT, Madras, India(CD-Rom), December 2005

Tadeau A, Atluri SN: Proceedings of ICCES04, Madeira, Portugal,(CD-Rom), August 2004.

Atluri, S.N., Nishioka, T., and Kikuchi, M., (Editors) Advances in Computational Engineering & Sciences, 2001, Tech Science Press., 1340 pages.

Atluri, S.N., and Brust, F.W (Editors), Advances in Computational Engineering & Sciences, Vol. II, Tech. Sciences Press, CA, 1012 pages, 2000

Atluri, S.N., and Brust, F.W (Editors), Advances in Computational Engineering & Sciences, Vol. I, Tech. Science Press, CA, 1071 pages, 2000

Atluri, S.N., and O'Donoghue, P.E (Editors)., Modeling & Simulation Based Engineering, Vol. 1, Tech Science Press, Forsyth, GA, 1018 pages, 1998.

Atluri, S.N., and O'Donoghue, P.E., Modeling & Simulation Based Engineering, Vol. 2, Tech Science Press, Forsyth, GA, pp. 1019-2209, 1998

Atluri, S.N., and Yagawa, G. (Editors)., Advances in Computational Engineering Science, Tech Science Press, Forsyth, GA, 1332 pages, 1997

- Atluri, S.N., Structural Integrity and Durability, Tech Science Press, Forsyth, GA, 865 pages, 1997.
- Atluri, S.N., Yagawa, G., and Cruse, T.A (Editors)., Computational Mechanics '95, Vols. I, 1506 pages, Springer-Verlag, 1995.
- Atluri, S.N., Yagawa, G., and Cruse, T.A (Editors)., Computational Mechanics '95, Vols. II, 1600 pages, Springer-Verlag, 1995.
- Atluri, S.N., Yagawa, G., Tong, P., Jones, R. (Editors), Computational Mechanics '92, 466 pages, Technology Publications, 1992.
- Atluri, S.N (Editor)., Computational Nonlinear Mechanics in Aerospace Engineering, Volume in AIAA Progress in Aeronautics and Astronautics Series, Am. Inst. of Aeronautics and Astronautics, 534 pages ,1992.
- Atluri, S.N., Hoggard, A., Harris, C., Miller, N., and Sampath, S.G (Editors), Durability of Metal Aircraft Structures, Technology Publications, 678 pages, 1992.
- Kane, J.R., Atluri, S.N., and Maier, G (Editors), Advances in Boundary Element Methods, Springer-Verlag, 670 pages, 1991.
- Atluri, S. N., Beskos, D. E., Yagawa, G., Jones, R (Editors), Computational Mechanics '91, Technology Publications 560 pages, 1991.
- Atluri, S. N., Tong, P. (Editors) Structural Integrity of Aging Airplanes, Springer-Verlag, 610 pages, 1991.
- Atluri, S.N., Newman, Jr., J.C., Raju, I.S., and Epstein, J.S (Editors), Analytical Methods in Fracture, American Society for Testing and Materials, 650 pages, June 1991.
- Atluri, S. N., Tong, P. (Editors), Frontiers in Computational Mechanics, (Festschrift for T.H.H. Pian), 440 pages, Pergamon Press, 1990.
- Arunachalam, V.S., Atluri, S.N., et al., (Editors) Advances in Structural Testing, Analysis and Design, Vols. I, 690 pages, Tata-McGraw-Hill, July, 1990.
- Arunachalam, V.S., Atluri, S.N., et al.,(Editors) Advances in Structural Testing, Analysis and Design, Vols. II, 710 pages, Tata-McGraw-Hill, July, 1990.
- Arunachalam, V.S., Atluri, S.N., et al.,(Editors) Advances in Structural Testing, Analysis and Design, Vols. III, 740 pages, Tata-McGraw-Hill, July, 1990.
- Atluri, S. N. Computational Methods in the Mechanics of Fracture, Russian Translation Edition, Mir Publishers, Moscow, USSR, 840 pages, 1989.
- Atluri, S. N., Yagawa, G. (Editors), Computational Mechanics '88:-Theory and Application, Volume I, Springer-Verlag, NY, 1700 pages, 1988.

Atluri, S. N., Yagawa, G.(Editors), Computational Mechanics '88:-Theory and Application, Volume II, Springer-Verlag, NY, 1600 pages, 1988.

Atluri, S. N., Amos, A. K. (Editors), Large Space Structures:-Dynamics & Control, Springer-Verlag, 470 pages, 1988.

Atluri, S. N. (Editor), Handbook of Finite Elements, Part II, McGraw-Hill, 1200 pages, 1987.

Atluri, S. N., Computational Methods in the Mechanics of Fracture, North-Holland Publishing Co., Amsterdam, 430 pages, 1986.

Kanninen, M. F., Atluri, S. N. (Editors), Dynamic Fracture Mechanics, Pergamon Press, Great Britain, 340 pages, 1986.

Atluri, S. N. (Guest Editor) Computer Methods in Applied Mechanics and Engineering, Vol. 5(1-2), North- Holland, 200 pages, April, 1986.

Yagawa, G., Atluri, S. N. (Editors), Computational Mechanics '86, Vol. 1, Springer-International, Berlin, 1400 pages, May, 1986.

Yagawa, G., Atluri, S. N. (Editors) Computational Mechanics '86, Vol. 2, Springer-International, Berlin, 1450 pages, May, 1986.

Atluri, S. N., Perrone, N.(Editors)., Computer Methods for Nonlinear Solids and Structural Mechanics, AMD-Vol. 54, American Society of Mechanical Engineers, 525 pages, 1983.

Atluri, S. N., Gallagher, R. H., Zienkiewicz, O. C. (Editors)., Hybrid & Mixed Finite Element Methods, J. Wiley & Sons, 600 pages, 1983.

Perrone, N., Atluri, S. N. (Editors)., Nonlinear and Dynamic Fracture Mechanics, AMD-Vol. 35, American Society of Mechanical Engineers, 215 pages, 1979.

B. Papers in Archival Literature (Journals, Books, and Conference Proceedings)

Dai, H.; Yue, X.; Dan, X.; Atluri, S.N. (2014): Chaos and chaotic transients in an aeroelastic system, Journal of Sound and Vibration, published online.

Tian, L.; Dong, L.; Phan, N.; Atluri, S.N. (2014): Three-Dimensional SGBEM-FEM Alternating Method for Analyzing Fatigue-Crack Growth in and the Life of Attachment Lugs, ASCE Journal of Engineering Mechanics, published online.

Elgohary, T.A.; Dong, L.; Junkins, J.L.; Atluri, S.N. (2014): Time Domain Inverse Problems in Nonlinear Systems Using Collocation & Radial Basis Functions, CMES: Computer Modeling in Engineering & Sciences, vol.100, no.1, pp.59-84,

Liu, C.S.; Atluri, S.N. (2014): Analysis of Elastic-Plastic Waves in a Thin-Walled Tube By a Novel Lie-Group Differential Algebraic Equations Method, CMC: Computers Materials and Continua, Volume: 41, Issue: 1, Pages: 1-36, 2014.

Bishay, L.; Dong, L.; Atluri, S.N. (2014): Multi-physics computational grains (MPCGs) for direct numerical simulation (DNS) of piezoelectric composite/porous materials and structures, Computational Mechanics, 2014 (published online).

Dong, L.; El-Gizawy, A.S.; Juhany, K.A.; Atluri, S.N. (2014): A Simple Locking-Alleviated 4-Node Mixed-Collocation Finite Element with Over-Integration, for Homogeneous or Functionally-Graded or Thick-Section Laminated Composite Beams, CMC: Computers Materials and Continua, Volume: 40, Issue: 1, Pages: 49-76, 2014.

Dong, L.; Alotaibi, A.; Mohiuddine, S.A.; Atluri, S.N. (2014): Computational Methods in Engineering: A Variety of Primal & Mixed Methods, with Global & Local Interpolations, for Well-Posed or Ill-Posed BCs, CMES: Computer Modeling in Engineering & Sciences (2014), vol.99, no.1, pp.1-85. MATLAB codes for all these methods

Elgohary, T.A.; Dong, L.; Junkins, J.L.; Atluri, S.N. (2014): Solution of Post-Buckling & Limit Load Problems, Without Inverting the Tangent Stiffness Matrix & Without Using Arc-Length Methods, CMES: Computer Modeling in Engineering & Sciences (2014), vol.98, no.6, pp.543-563.

Kang, N.; Park, S. C.; Park J.; Atluri S.N. (2014) Dynamics of flexible tower-blade and rigid nacelle system: dynamic instability due to their interactions in wind turbine, Journal of Vibration and Control.

Dai H.; Yue X.; Atluri S.N. (2014): Solutions of the Von Kármán plate equations by a Galerkin method, without inverting the tangent stiffness matrix, Journal of Mechanics of Materials and Structures, Vol. 9, No. 2, Pages: 195-226.

Bishay, P.L.; Alotaibi, A.; Atluri, S.N. (2012): Multi-Region Trefftz Collocation Grains (MTCGs) for Modeling Piezoelectric Composites and Porous Materials in Direct and Inverse Problems , To appear in Journal of Mechanics of Materials and Structures (2014).

Zhang, T.; He, Y.; Dong, L.; Li, S.; Alotaibi, A.; Atluri, S.N. (2014): Meshless Local Petrov-Galerkin Mixed Collocation Method for Solving Cauchy Inverse Problems of Steady-State Heat Transfer , CMES: Computer Modeling in Engineering & Sciences (2014), Volume: 97, Issue: 6, Pages: 509-533.

Zhang, T.; Dong, L.; Alotaibi, A.; Atluri S.N. (2014) Application of the Trefftz method, on the basis of Stroh formalism, to solve the inverse Cauchy problems of anisotropic elasticity in multiply connected domains, Engineering Analysis with Boundary Elements (2014), Volume: 43, Pages: 95-104.

Kang S. W.; Atluri S.N. (2014): Application of Nondimensional Dynamic Influence Function Method for Eigenmode Analysis of Two-Dimensional Acoustic Cavities, Advances in Mechanical Engineering (2014), <http://dx.doi.org/10.1155/2014/363570>.

Dai H.; Yue X.; Yuan J.; Atluri S.N. (2014); A time domain collocation method for studying the aeroelasticity of a two dimensional airfoil with a structural nonlinearity, Journal of Computational

Physics (2014), <http://dx.doi.org/10.1016/j.jcp.2014.03.063>.

Han Z.D.; Atluri,S.N.(2014): On the (Meshless Local Petrov-Galerkin) MLPG-Eshelby Method in Computational Finite Deformation Solid Mechanics - Part II, CMES: Computer Modeling in Engineering & Sciences, Volume: 97, Issue: 3, Pages: 119-237, 2014.

Han Z.D.; Atluri,S.N. (2014): Eshelby Stress Tensor T: a Variety of Conservation Laws for T in Finite Deformation Anisotropic Hyperelastic Solid & Defect Mechanics, and the MLPG-Eshelby Method in Computational Finite Deformation Solid Mechanics-Part I,CMES: Computer Modeling in Engineering & Sciences, Volume: 97, Issue: 1, Pages: 1-34, 2014.

Bishay P.L.; Atluri,S.N. (2014): Trefftz-Lekhnitski Grains (TLGs) for Efficient Direct Numerical Simulation (DNS) of the Micro/Meso Mechanics of Porous Piezoelectric Materials,Computational Materials Science, Volume: 83, Pages: 235-249, 2014.

Dong, L.; Gamal, S.H.; Atluri, S.N. (2013): Stochastic Macro Material Properties, Through Direct Stochastic Modeling of Heterogeneous Microstructures with Randomness of Constituent Properties and Topologies, by Using Trefftz Computational Grains (TCG), CMC: Computers Materials and Continua, Volume: 37, Issue: 1, Pages: 1-21, 2013.

Zhang, T.; Dong, L.; Alotaibi, A.; Atluri, S.N. (2013): Application of the MLPG Mixed Collocation Method for Solving Inverse Problems of Linear Isotropic/Anisotropic Elasticity with Simply/Multiply-Connected Domains, CMES: Computer Modeling in Engineering & Sciences, Volume: 94, Issue: 1, Pages: 1-28, 2013.

Cai, Y.C.; Wu, J.; Atluri, S.N. (2013): A new implementation of the numerical manifold method (NMM) for the modeling of non-collinear and intersecting cracks, CMES: Computer Modeling in Engineering & Sciences, Volume: 92, Issue: 1, Pages: 63-85, 2013.

Liu, C.S.; Atluri, S.N. (2013): Numerical solution of the Laplacian Cauchy problem by using a better postconditioning collocation Trefftz method, Engineering Analysis with Boundary Elements, Volume: 37, Pages: 74-83, 2013.

Liu, C.S.; Atluri, S.N. (2013): A $GL(n,R)$ Differential Algebraic Equation Method for Numerical Differentiation of Noisy Signal, CMES: Computer Modeling in Engineering & Sciences, Volume: 92, Issue: 2, Pages: 213-239, 2013.

Qian, Z.Y.; Han, Z.D.; Atluri, S.N.(2013):A Fast Regularized Boundary Integral Method for Practical Acoustic Problems, CMES: Computer Modeling in Engineering & Sciences, Volume: 91, Issue: 6, Pages: 463-484, 2013.

Sladek, J.; Stanak, P.; Han, Z-D.; Sladek, V.; Atluri, S.N. (2013):Applications of the MLPG Method in Engineering & Sciences: A Review, CMES: Computer Modeling in Engineering & Sciences, Volume: 92, Issue: 5, Pages: 423-475, 2013.

Dong, L.; Atluri, S.N. (2013): Fracture & Fatigue Analyses: SGBEM-FEM or XFEM? Part 1: 2D Structures, CMES: Computer Modeling in Engineering & Sciences, Volume: 90, Issue: 2, Pages: 91-146,

- Dong, L.; Atluri, S.N. (2013): Fracture & Fatigue Analyses: SGBEM-FEM or XFEM? Part 2: 3D Solids, CMES: Computer Modeling in Engineering & Sciences, Volume: 90, Issue: 5, Pages: 379-413,
- Bishay P.L.; Atluri,S.N. (2013): 2D and 3D Multiphysics Voronoi Cells, Based on Radial Basis Functions, for Direct Mesoscale Numerical Simulation (DMNS) of the Switching Phenomena in Ferroelectric Polycrystalline Materials, CMC: Computers Materials and Continua, Volume: 33, Issue: 1, Pages: 19-62,
- Dong, L.; Atluri,S.N. (2013): SGBEM Voronoi Cells (SVCs), with Embedded Arbitrary-Shaped Inclusions, Voids, and/or Cracks, for Micromechanical Modeling of Heterogeneous Materials, CMC: Computers Materials and Continua, Volume: 33, Issue: 2, Pages: 111-154, .
- Liu, C.S.; Atluri, S.N. (2013) :Numerical solution of the Laplacian Cauchy problem by using a better postconditioning collocation Trefftz method, Engineering Analysis with Boundary Elements, Volume: 37, Issue: 1, Pages: 74-83.
- Sellountos, E.J.; Polyzos, D.; Atluri, S.N. (2012): A New and Simple Meshless LBIE-RBF Numerical Scheme in Linear Elasticity, CMES: Computer Modeling in Engineering and Sciences, Volume: 89, Issue: 6, Pages: 513-551.
- Dong, L.; Atluri, S.N. (2012): SGBEM (Using Non-hyper-singular Traction BIE), and Super Elements, for Non-Collinear Fatigue-growth Analyses of Cracks in Stiffened Panels with Composite-Patch Repairs, CMES: Computer Modeling in Engineering and Sciences, Volume: 89, Issue: 5, Pages: 417-458.
- Liu, C.S.; Zhang, S.Y.; Atluri, S.N. (2012): The Jordan Structure of Residual Dynamics Used to Solve Linear Inverse Problems, CMES: Computer Modeling in Engineering and Sciences, Volume: 88, Issue: 1, Pages: 29-47.
- Dong, L.; Atluri, S.N. (2012): Development of 3D Trefftz Voronoi Cells with Ellipsoidal Voids &/or Elastic/Rigid Inclusions for Micromechanical Modeling of Heterogeneous Materials, CMC: Computers Materials and Continua, Volume: 30, Issue: 1, Pages: 39-81.
- Bishay P.L.; Sladek, J.; Sladek, V.; Atluri,S.N. (2012): Analysis of Functionally Graded Magneto-Electro-Elastic Composites Using Hybrid/Mixed Finite Elements and Node-Wise Material Properties , CMC: Computers, Materials & Continua, Volume: 29, Issue: 3, Pages: 213-262, 2012.
- Dong, L.; Atluri, S.N. (2012): Development of 3D T-Trefftz Voronoi Cell Finite Elements with/without Spherical Voids &/or Elastic/Rigid Inclusions for Micromechanical Modeling of Heterogeneous Materials, CMC: Computers Materials and Continua, Volume: 29, Issue: 2, Pages: 169-211.
- Kang, S.W.; Atluri, S.N.; Kim, S.H. (2012): Application of the Nondimensional Dynamic Influence Function Method for Free Vibration Analysis of Arbitrarily Shaped Membranes, Journal of vibration and acoustics, Volume: 134 Issue: 4 Pages: 041008-1-041008-8.
- Sladek, J.; Sladek, V.; Stanak P.; Wen, P.H.; Atluri,S.N. (2012): Laminated Elastic Plates with Piezoelectric Sensors and Actuators, CMES: Computer Modeling in Engineering and Sciences, Volume: 85, Issue: 6, Pages: 543-572.

Dong, L.; Atluri, S.N. (2012): A Simple Multi-Source-Point Trefftz Method for Solving Direct/Inverse SHM Problems of Plane Elasticity in Arbitrary Multiply-Connected Domains, CMES: Computer Modeling in Engineering and Sciences, Volume: 85, Issue: 1, Pages: 1-43.

Liu, C.S.; Atluri, S.N. (2012): A Globally Optimal Iterative Algorithm Using the Best Descent Vector $\dot{x}=\lambda[\alpha F+BTF]$, with the Critical Value αc , for Solving a System of Nonlinear Algebraic Equations $F(x) = 0$, CMES: Computer Modeling in Engineering and Sciences, Volume: 84, Issue: 6, Pages: 575-601.

Bishay P.L.; Atluri, S.N. (2012): High-Performance 3D Hybrid/Mixed, and Simple 3D Voronoi Cell Finite Elements, for Macro-& Micro-mechanical Modeling of Solids, Without Using Multi-field Variational Principles, CMES: Computer Modeling in Engineering and Sciences, Volume: 84, Issue: 1, Pages: 41-97.

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Atluri SN: Plenary Lecture, “ Nanotechnology”, ICCES04, Madeira, Portugal, Aug 2004

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Atluri SN: Lecture, “ Adances in Computational Mechanics”, University of Michigan, May 2004

Atluri SN: Plenary Lecture, “ Computational Nanotechnology”, International Conference on Structural Stabily & Vibrations, Orlando, FL, June 2005

Atluri SN: Plenary Lecture, “ MLPG Methods for Large Deformation Problems”, Slovak Academy of Sciences, Stara Lesna, Slovaki, June 2005

Atluri SN: Lecture, “ Multiscale Modeling”, on the Occasion of the conferral of D.Sc, Honoris Causa, Bratislava, January 2006

Atluri SN: Plenary Lecture, “ MLPG for Contact, Impact, & Penetration”, Int Conference on Meshless Methods, Dubrovnik, Croatia, July 2006

Atluri, S. N., ‘ MLPG Method: Better, Faster & Cheaper Than FEM & BEM”, Dean’s Colloquium, University of Florida, March 2002

Atluri, S. N. ., “MLPG Method: Better, Faster & Cheaper Than FEM & BEM”, College of Engineering Seminar, Virginia Polytechnic Institute & State University, March 2002.

Atluri, S. N. ., “MLPG Method: Better, Faster & Cheaper Than FEM & BEM”, Beckman Institute Seminar, University of Illinois, April 2002.

Atluri, S. N. ., ‘ MLPG Method: Better, Faster & Cheaper Than FEM & BEM”, Plenary Lecture, ICES’03, Reno, Nevada, July 2002

Atluri, S.N., “Meshless Methods in Engineering” College of Engineering Seminar, Ohio State University, May 2001.

Atluri, S.N., “SGBEM Alternating Method for Damage Tolerance” Plenary Lecture, International Conf. Comutational Engg. Science, Puerto Vallarta, Mexico, Sept. 2001.

Atluri, S.N., "Advances in Computational Structural Mechanics," Plenary Lecture, Israel Conference on Aerospace Sciences, Feb. 2000.

Atluri, S.N., "Advances in Meshless Methods," Plenary Lecture, Israel Conference on Computational Mechanics, Oct. 24-26, 2000.

Atluri, S.N., "Current Developments in Meshless Methods," Sandia National Labs, Livermore, Ca, Feb. 2000.

Atluri, S.N., "Finite Stretches & Rotations in Space-Curved Beams," Keynote Lecture, IASS-IACM Symposium on Shell and Spatial Structures, Crete, Greece, June 4, 2000.

Atluri, S.N., "Local Petrov-Galerkin Methods in Modeling & Simulation," Sandia National Labs, Livermore, Feb. 2000.

Atluri, S.N., "MLPG & LBIE Methods in Computational Engineering Science," Plenary Lecture, ICES'2K, Los Angeles, CA, August 20-25, 2000.

Atluri, S.N., "MLPG & LBIE Methods in Computational Engineering," Keynote Lecture, Mathematics Institute, Oberwalfach, Germany, April 2000.

Atluri, S.N., "Meshless Methods for Penetration & Fracture Mechanics," Army Research Laboratories, Maryland, May 22, 2000.

Atluri, S.N., "Recent Developments in Meshless Methods for Fluid Flow," Stanford University, January 2000.

Atluri, S.N., "The Future of Engineering Education," New Mexico, Chapter of ASME, May 25, 2000.

Atluri, S.N., "Truly Meshless MLPG & LBIE Methods in Computational Engineering & Science," College of Engineering Seminar, Ohio State University, May 2000.

Atluri, S.N., "MLPG Method:-Recent Developments," NASA Langley Research Center, Hampton, VA, Sept. 1999.

Atluri, S.N., "Meshless Methods in Computational Mechanics," Univ. of Stuttgart, Germany, May, 1999.

Atluri, S.N., "Meshless Methods in Fracture Simulation," Sandia National Labs, Albuquerque, NM, Dec. 1999.

Atluri, S.N., "Meshless Methods in Mechanics," Univ. of Hannover, Germany, May 1999.

Atluri, S.N., "Meshless Methods in Solid & Fluid Mechanics," Keynote Lecture, European Conference on Computational Mechanics, Munich, Germany, Sept. 30, 1999.

Atluri, S.N., "Structural Integrity & Damage Tolerlance," Univ. of Hannover, Germany, May 1999.

Atluri, S.N., "Truly Meshless Methods in Computational Mechanics," Keynote Lecture, U.S. National Congress on Computational Mechanics, Boulder, CO, Aug. 1999.

Atluri, S.N., "Damage Tolerance & Structural Integrity," Plenary Lecture, AERO-INDIA, Dec. 1998.

Atluri, S.N., "Meshless Methods in Computational Mechanics," Department of Mechanical Engineering, Stanford University, Nov. 22, 1998.

Atluri, S.N., "Meshless Methods in Computational Mechanics," Keynote Lecture, Greek National Congress on Computational Mechanics, Volos, Greece, June 1998.

Atluri, S.N., "Meshless Methods in Dynamic Fracture," Sandia National Labs, Albuquerque, NM, Dec. 1998.

Atluri, S.N., "Meshless Methods in Mechanics," Fuji Think Tank, Tokyo, Japan, June 1998.

Atluri, S.N., "Meshless Methods in Mechanics," Invited Lecture, ONR Review, Carderock, May 1998.

Atluri, S.N., "Meshless Methods in Mechanics," University of Tokyo, Japan, June 1998.

Atluri, S.N., "Meshless Methods in Modeling and Simulation," NASA Langley Research Center, Hampton, VA, Sept. 1998.

Atluri, S.N., "Meshless Methods in Modeling and Simulation," Technical University, Hamburg, Germany, September 1998.

Atluri, S.N., "Recent Advances in Computational Engineering Science," Plenary Lecture, ICES '98, Oct. 6, 1998.

Atluri, S.N., "Research Needs in Aging Aircraft," Panelist Plenary Session, FAA/NASA/DOD Joint Conference on Aging Aircraft, Williamsburg, VA, September 1998.

Atluri, S.N., "Structural Integrity and Durability," University of Stuttgart, Germany, September 1998.

Atluri, S.N., "Structural Integrity and Durability: New Vistas Thru I.T.," Opening General Lecture, International Symposium on Advanced and Aerospace Science & Technology, Jakarta, Indonesia, Sept. 1998.

Atluri, S.N., "Structural Integrity and Durability: New Vistas Thru I.T.," Plenary Lecture, Structures, Structural Dynamics, and Materials Conference, AIAA, Long Beach, CA, April 1998.

Atluri, S.N., "Truly Meshless Methods in Modeling and Simulation," Northwestern University, May 1998.

Atluri, S.N., "Residual Strength and WFD Thresholds in Aging Aircraft," Key Note Lecture, ICES'97, San Jose,

Costa Rica, 1997.

Atluri, S. N. "Advances in Computational Fracture Mechanics," Keynote Lecture International Congress on Fracture, Sydney, Australia, April, 1997.

Atluri, S. N. "FEM & BEM in Large Rotational Solid Mechanics," IUTAM/IACM Symposium on Structural Mechanics, Vienna, Austria, June, 1997.

Atluri, S. N. "Finite & Boundary Element Methods for Nonlinear Solid Mechanics," Australian Conference on Finite Element Methods, Sydney, Australia, April, 1997.

Atluri, S.N., "Advances in Computational Fracture Mechanics," Plenary Lecture, Far-Eastern Conference on Fracture and Fatigue," Hong Kong University of Science and Technology, December 1997.

Atluri, S.N., "Finite Rotations in Solid Mechanics," Key Note Lecture, GAMM Annual Meeting, Reigensburg, Germany, March 1997.

Atluri, S.N., "Rotations in Computational Methods," Korea Advanced Institute of Science and Technology, Dec. 1997.

Atluri, S.N., "The Role of Plasticity in Fatigue-Damage Thresholds," Key Note Lecture, Complas V, Polytechnic University of Catalunya, Barcelona, Spain, April 1997.

Atluri, S.N., "Variational Principles with Finite Rotations," Invited Lecture, Symposium in honor of Eric Reissner's birthday, UCSD, La Jolla, January 1997.

Atluri, S. N. "Advances in Computational Fracture Mechanics & Structural Integrity," General Lecture, IUTAM Symposium on Fracture Mechanics, Dublin, Ireland, June, 1996.

Atluri, S. N. "Integrity & Failure Processes in Composite Structures," Keynote Lecture, Spanish Conference on Numerical Methods in Engineering, Zaragoza, Spain, June, 1996.

Atluri, S. N. "Failure Processes in Composite Materials," Plenary Lecture, International Conference on Composite Engineering, New Orleans, LA, August, 1995.

Atluri, S. N. "Field-Boundary Element Methods for Finite Plasticity," Keynote Lecture, COMPLAS-95, Barcelona, Spain, April, 1995.

Atluri, S. N. "Field-Boundary Element Methods for Nonlinear Problems," General Lecture, IUTAM Symposium on Integral Equation Methods, Padua, Italy, May, 1995.

Atluri, S. N. "Rotations in Computational Solid Mechanics," A.C. Eringen Medal Lecture, 32nd Annual SES Meeting, New Orleans, LA, October, 1995.

Atluri, S. N. "Wide Spread Fatigue Damage," NATO-AGARD Specialist Meeting, Rotterdam, Netherlands, May, 1995.

Atluri, S. N. "Composite Patch Repairs of Metal Aging Aircraft," NATO-AGARD Specialist Meeting," Seville, Spain, October, 1994.

Atluri, S. N. "Computational Issues in Aging Infrastructure," Kobayashi Symposium, Tokyo, Japan, July, 1994.

Atluri, S. N. "Flying with Cracks," Canadian Air Force Structural Integrity Program, Ohawa, Canada, September, 1994.

Atluri, S. N. "Generalized Dundurs Parameters & the Interfacial Crack," Society of Engineering Science, Texas A&M University, October, 1994.

Atluri, S. N. "Mechanics of Wide-Spread Fatigue Damage in Aging Aircraft," 12th U.S. National Congress on Applied Mechanics, Seattle, June, 1994.

Atluri, S. N. "Mechanics of Wide-Spread Fatigue Damage," Carnegie-Mellon University, April, 1994.

Atluri, S. N. "Recent Advances in Computational Modeling of Aircraft Structures," World Congress on Computational Mechanics, Japan, August, 1994.

Atluri, S. N. "Research Issues in Aging Aircraft," IPTN, Bandung, and Jakarta, Indonesia, February, 1994.

Atluri, S. N. "Research Issues in Aging Aircraft," Pacific Airshow and Exhibit, Singapore, February, 1994.

Atluri, S. N. "Stress Intensity Factor Solutions for Cracks Near Fastener Holes," International Conference on Aeronautical Fatigue, Stockholm, June, 1993.

Atluri, S. N. "The Dawning of the Age of Designer Materials," Inaugural Institute Seminar, Georgia Tech, February, 1993.

Atluri, S. "Rotations in Computational Solid Mechanics," Plenary Lecture, 2nd U.S. National Congress on Computational Solid Mechanics, Washington D.C., August, 1993.

Atluri, S. N. "Advances in Structural Integrity Analyses," Plenary Lecture, 8th International Congress on Fracture,

Kiev, Ukraine, June, 1993.

Atluri, S. N. "Computational Modeling of Aircraft Structures," Boeing Commercial Airplane Group, Renton, WA, July, 1993.

Atluri, S. N. "Computational Modeling of Aircraft Structures," Douglas Aircraft Co., Long Beach, CA, July, 1993.

Atluri, S. N. "Computational Modeling of Aircraft Structures," NASA Langley Research Center, Hampton, VA, August, 1993.

Atluri, S. N. "Fatigue Growth of Surface Flaws in Aircraft Structures," 8th International Congress on Fracture, Kiev, Ukraine, June, 1993.

Atluri, S. N. "Life Enhancement of Aging Aircraft Structures," Poster Session, International Conference on Aging Airplanes, Hamburg, June, 1993.

Atluri, S. N. "Research on Advanced Materials," FAA Technical Center, Atlantic City, NJ, March, 1993.

Atluri, S. N. "Residual Strength Analysis of Aircraft Structures," FAA Technical Center, Atlantic City, NJ, March, 1993.

Atluri, S. N. "Residual Strength of Fuselage Panels with Wide-Spread Fatigue Damage," International Conference on Aeronautical Fatigue, Stockholm, June, 1993.

Atluri, S. N. "Structural Integrity of Aging Aircraft Structures & Life Enhancement," Rutgers University, March, 1993.

Atluri, S. N. "The Dawning of the Age of Designer Materials," Distinguished Seminar in Engineering, Hong Kong University of Science & Technology, March, 1993.

Atluri, S. N. "The Dawning of the Age of Designer Materials," Minta Martin Lecture in Aeronautics & Astronautics, M.I.T., April, 1993.

Atluri, S. N. "The Dawning of the Age of Designer Materials," Sigma-Xi, Florida Atlantic University, Boca Raton, Florida, February, 1993.

Atluri, S. N. "The Role of Computational Mechanics in the Dawning of the Age of Designer Materials," 47th Annual Meeting of the Indian Institute of Metallurgists, Hyderabad, India, November, 1993.

Atluri, S. N. "The Role of Computational Mechanics in the Dawning of the Age of Designer Materials," General Lecture, JSME CMD International Symposium on High-Performance Computing, Sendai, Japan, November, 1993.

Atluri, S. N. "The Role of Computational Mechanics in the Dawning of the Age of Designer Materials," Princeton University, April, 1993.

Atluri, S. N. "Fatigue Growth of Multiple Cracks Emanating From a Row of Fastener Holes in a Fuselage Lap Joint," International Symposium on Structural Integrity of Aging Airplanes, Atlanta, April, 1992.

Atluri, S. N. "Life Enhancement of Aging Aircraft Structures," Seminar at VPI & SU, February 1992.

Atluri, S. N. "Recent Advances in Structural Integrity Analyses," IBM Summer Institute, Oberlech, Austria, July, 1992.

Atluri, S. N. "Repairs of Aging Aircraft Structures," AGARD Specialists Meeting, Lindau, Germany, October, 1992.

Atluri, S. N. "The Role of Computational Mechanics in the Dawning of the Age of Designer Materials," CVJ Rao Memorial Lecture, 50th Anniversary Celebrations of the Faculty of Aerospace Engineering, Indian Institute of Science, Bangalore, India, December, 1992

Atluri, S., Okada, H., Epstein, J. S. "Fracture-Toughness Enhancement Due to Transformations," Sixth International Conference on Mechanical Behavior of Materials, Kyoto, Japan, 1991.

Atluri, S. N. "Composite Patch Repair Methods for Multi-Site Damage," General Lecture, International Conference on Damage Tolerance Assessment for Aging Aircraft, Melbourne, Australia, August, 1991.

Atluri, S. N. "Field-Boundary Element Methods for Nonlinear Solid Mechanics," Keynote Lecture, Asian Pacific Conference on Computational Mechanics, Hong Kong, December 1991.

Atluri, S. N. "Field-Boundary Element Methods for Nonlinear Solid Mechanics," IBM National Lecture Series, Palm Springs, California, October 1991.

Atluri, S. N. "Life Enhancement of Aging Aircraft Structures," FAA International Conference on Aging Aircraft, November 1991.

Atluri, S. N. "Life Enhancement of Aging Aircraft Structures," Seminar at RPI, Troy, New York, November 1991.

Atluri, S. N. "Life Enhancement of Aging Aircraft Structures," at O.C. Zienkiewicz's 70th birthday Symposium,

Barcelona, Spain, October 1991.

Atluri, S. N. Fifth International Conference on Composite Materials, Honolulu, July, 1991.

Atluri, S. N. Keynote Lecture, U.S. National Congress on Computational Mechanics, Chicago, July, 1991.

Atluri, S., Kouri, J. V. "Analytical Modeling of Thick-Section Composites," International Conference on Composite Materials, Honolulu, HI, 1991.

Atluri, S. N. "IUTAM Symposium on Finite Deformation Plasticity," Hannover, Germany, September, 1990.

Atluri, S. N. "Some Unification of Creep Theories Based on Internal Time Concept," Creep in Structures, IUTAM Symposium, M. Zyczkowski, Ed., Cracow, Poland, 1990.

Atluri, S. N. ASCE Structures Congress, Baltimore, Maryland, May, 1990.

Atluri, S. N. DOD Mechanics of Composites Review, Dayton, OH, October, 1990.

Atluri, S. N. Honorary Chairman & General Lecture, International Conference on Structural Analysis and Design, Bangalore, India, July, 1990.

Atluri, S. N. General Lecture, IABEM International Symposium on Boundary Element Methods, Rome, Italy, October, 1990.

Atluri, S. N. International Conference on Numerical Methods in Fracture Mechanics, Freiburg, Germany, April, 1990.

Atluri, S. N. International Symposium on Structural Integrity of Aging Airplanes, Atlanta, Georgia, March, 1990.

Atluri, S. N. Second World Congress on Computational Mechanics, Stuttgart, August, 1990.

Borri, M., Atluri, S. "IUTAM Symposium on Dynamical Systems," Moscow State University, May, 1990.

Atluri, S. N. University of Delaware, October, 1989.

Atluri, S. N. ASME/ASCE Mechanics Conference, University of California, La Jolla, July, 1989.

Atluri, S. N. ASME/JSME Pressure Vessels Congress, Honolulu, Hawaii, July, 1989.

Atluri, S. N. Distinguished Lecture Series, Super-Computer Institute, University of Minnesota, November, 1989.

Atluri, S. N. "Midwest Mechanics Lecturer", Eight Lectures at University of Michigan, University of Minnesota, Purdue University, Notre Dame University, University of Illinois at Urbana, Illinois Institute of Technology, Michigan State University, and University of Wisconsin, Midwest Mechanics Lecturer, March-April, 1989.

Atluri, S. N. Engineering Software and Science, I.I.T. Delhi, India, December 19, 1989.

Atluri, S. N. GAMM Symposium on Applied Mechanics and Mathematics, Karlsruhe, West Germany, April, 1989.

Atluri, S. N. IUTAM/IACM Symposium on Discrete Methods in Structural Mechanics, Vienna, Austria, June, 1989.

Atluri, S. N. Keynote Lecture International Conference on Computational Plasticity, Barcelona, Spain, September, 1989.

Atluri, S. N. General Lecture, International Symposium on Plasticity, Nagoya, Japan, August, 1989.

Atluri, S. N. Reliability of Finite Element Methods, Austin, Texas, October, 1989.

Atluri, S. N. Genmersal Lecture, Seventh International Congress on Fracture, Houston, Texas, March, 1989.

Atluri, S. N. Structural Mechanics in Reactor Technology Conference, Anaheim, CA, August, 1989.

Atluri, S. N. General Lecture, Symposium on Boundary Element Methods, International Association for Boundary Element Methods, Hartford, CT, October, 1989.

Atluri, S. N. Symposium on Shells, ASME Winter Annual Meeting, San Francisco, December, 1989.

Atluri, S., Argyris, J. H., -Polytechnic of Central London, Constantin Caratheodory Lecture, London, April, 1989.

Atluri, S. N. Aerospace Division and Bioengineering Division, ASME Winter Annual Meeting, Chicago, December, 1988.

Atluri, S. N. NSF, Advanced Study Institute for Computational Mechanics, in Asia, Madras, India, August, 1988.

Atluri, S. N. "An Arbitrarily Inclined Embedded Elliptical Crack in a Transversely Isotropic Solid," International Conference on Composite Materials, Madras, India, January, 1988.

Atluri, S. N. ASME Pressure Vessels and Piping Conference, Pittsburgh, June, 1988.

Atluri, S. N. At University of Tokyo, Kobe University and Kyushu University, December, 1988.

Atluri, S. N. "Southwest Mechanics Lecturer" Four Lectures at the University of Oklahoma, University of Houston, Shell Oil Company, and Texas A&M University, 1988.

Atluri, S. N. International Conference on Computational Engineering Science, Atlanta, GA, April, 1988.

Atluri, S. N. Symposium on Structural Dynamics, VPI & SU, Blacksburg, VA, June 1-3, 1988.

Atluri, S. N. U.S.-Japan Symposium on Boundary Element Methods, University of Tokyo, 1988.

Atluri, S. N. "Finite Deformation Analysis of Shallow Shells by FBEM," AIAA SDM Conference, Monterey, CA, April, 1987.

Atluri, S. N. "A Finite Strain Endochronic Theory of Plasticity, Based on Mandel's Director Concept," 2nd International Conference on Constitutive Laws, Tucson, Arizona, 1987.

Atluri, S. N. General Lecture, "Computational Inelastic Solid Mechanics & Control," 5th International Conference on Finite Elements in Australia, Melbourne, August, 1987.

Atluri, S. N. "Computational Methods for Viscoplastic and Dynamic Crack Propagation," 4th International Conference on Numerical Methods in Fracture, San Antonio, Texas, 1987.

Atluri, S. N. "Computational Methods in Inelasticity & Damage Mechanics," Post-SMIRT Conference on Inelastic Analysis & Life Prediction, Paris, France, August, 1987.

Atluri, S. N. "Computational Plasticity," Center for Advanced Engineering Studies, MIT, August, 1987.

Atluri, S. N. "Constitutive Modeling and Computational Implementation of Finite Plasticity," Aris Phillips Memorial Symposium on Plasticity, Gainesville, Florida, January, 1987.

Atluri, S. N. "Directions in Computational Mechanics," Indian Academy of Sciences, 1987.

Atluri, S. N. "Dynamic Fracture Mechanics," Michael Sadowsky Lecture, RPI, Troy, New York, April, 1987.

Atluri, S. N. "Dynamic Fracture Mechanics," University of Cincinnati, February, 1987.

Atluri, S. N. "Dynamic Fracture," University of Oklahoma, April, 1987.

Atluri, S. N. General Lecture, "Field-Boundary-Elements for Finite Deformation, Nonelastic Solid Mechanics," I.U.T.A.M., Symposium on Advances in Boundary Element Methods, San Antonio, April, 1987.

Atluri, S. N. "Finite Strain Plasticity," George Washington University, October, 1987.

Atluri, S. N. "Frontiers in Modern Medicine," Northwestern University, January, 1987.

Atluri, S. N. "Large Space Structures," University of Maryland, July, 1987.

Atluri, S. N. "Special Short Course on Advances in Computational Mechanics," Tokyo, March, 1987.

Atluri, S. N. "Unification of FEM/BEM," Special Seminar on Advances in FEM/BEM, MIT, August, 1987.

Atluri, S. N. "Viscoplastic Effects on Dynamic Crack Propagation," International Conference on Structural Mechanics in Reactor Technology, Lausanne, Switzerland, August, 1987.

Atluri, S. N. Applied Mechanics Division, Symposium on Constitutive Modeling, Boston, MA, 1987.

Atluri, S. N. "Field-Boundary-Element Methods," US-China Invitational Workshop on Computational Mechanics, China, June, 1986.

Atluri, S. N. "Viscoplastic Effects in Dynamic Crack Propagation," Workshop on Dynamic Crack Propagation, (Office of the Naval Research), University of Maryland, 1986.

Atluri, S. N. "Comments on Mixed and Singular Finite Elements," Conference on Theory and Applications of Finite Element Methods, ICASE, NASA Langley, July, 1986.

Atluri, S. N. "Computational Elastoplasticity and Field-Boundary-Element Methods," U.S.-China Invitational Workshop on Advances in Computational Mechanics, Chengde, China, 1986.

Atluri, S. N. "Constitutive Modeling of Finite Plasticity," Symposium on Advances and Trends in Computational Mechanics, ASME WAM, 1986.

Atluri, S. N. "Control of Large Space Structures," M.I.T., Cambridge, April, 1986.

Atluri, S. N. "Control of Large Space Structures," University of Rhode Island, April, 1986.

Atluri, S. N. "Control of Space Structures," Special Seminar on Advancement in Finite & Boundary Element Methods, Center for Advanced Engineering Studies, MIT, August, 1986.

Atluri, S. N. "Dynamic Fracture Mechanics," International Conference on Computational Mechanics, Tokyo, Japan, May, 1986.

Atluri, S. N. "Finite Strain Plasticity," United Technologies Research Center, Connecticut, 1986.

Atluri, S. N. "Flaws in Welded Components," 1st OMAE Specialty Symposium on Offshore and Arctic Frontiers, February, 1986.

Atluri, S. N. "Fracture Control," Session at ASME Offshore Technology & Marine Engineering, New Orleans, February, 1986.

Atluri, S. N. "Hysteretic Joint Damping," USAF Forum on Space, State University of New York at Buffalo, 1986.

Atluri, S. N. "Nonlinearities in Dynamics of Space Structures," USAF Forum on Space, State University of New York at Buffalo, 1986.

Atluri, S. N. "Thermomechanical Fields Near a Running Crack-Tip," IUTAM Symposium on Thermomechanical Coupling in Solids, Ecole Polytechnic, Paris, 1986.

Atluri, S. N. "Unification of Concepts in Small & Finite Deformation Plasticity," Workshop on Constitutive Models, U.S. Army Research Office, VPI & SU, 1986.

Atluri, S. N. "Unification of FEM and BEM," Special Seminar on Advancements in Finite & Boundary Element Methods, Center for Advanced Engineering Studies, MIT, August, 1986.

Atluri, S. N. "Unified Basis for FEM & BEM," Mini-Symposium on Boundary Element Methods, Massachusetts Section of AIAA, Boston, April, 1986.

Atluri, S. N. "Viscoplastic Analysis of Dynamic Crack Propagation," 1st World Congress on Computational Mechanics, Austin, TX, September, 1986.

Atluri, S. N. "Viscoplastic Effects on Dynamic Crack Propagation," ONR Workshop on Dynamic Crack Growth, University of Maryland, 1986.

Atluri, S. N. First International Conference on Computational Mechanics, Tokyo Science University, Tokyo, Japan, May, 1986.

Atluri, S. N. Fourth International Conference on Innovative Numerical Methods in Applied Science, Atlanta, GA, March, 1986.

Atluri, S. N. Workshop on Computational Mechanics, Beijing Institute of Aero & Astro, June, 1986.

Atluri, S. N. "Constitutive Modeling of Finite Plasticity," Symposium on Advances & Trends in Computational Mechanics, ASME Winter Annual Meeting, Anaheim, CA, 1986.

Atluri, S. N. Chinese Society for Theoretical & Applied Mechanics, Taiwan, PR China, July, 1985.

Atluri, S. N. "Control of Transient Dynamic Response of the Continuum Model of a large Space Structure," 26th AIAA/ASME/ASCE/AHS Structures, Structural Dynamics & Materials Conference, Orlando, Florida, April, 1985.

Atluri, S. N. Colloquium on Finite Rotations in Solid Mechanics, Jablonna, Poland, September, 1985.

Atluri, S. N. Hybrid & Mixed Methods, ASME WAM, Miami, Florida, November, 1985.

Atluri, S. N. International Conference on Finite Elements in Computational Mechanics, Bombay, India, 1985.

Atluri, S. N. International Conference on Numerical Methods in Engineering, Swansea, UK, January, 1985.

Atluri, S. N. International Conference on Numerical Methods: Theory and Applications, University of Wales, Swansea, UK, January, 1985.

Atluri, S. N. ONR Workshop on Constitutive Modeling, Reston, Virginia, October, 1985.

Atluri, S. N. ONR Workshop on Solid Mechanics, Stanford University, March, 1985.

Atluri, S. N. Second International Conference on Variational Methods in Engineering, University of Southampton, UK, July, 1985.

Atluri, S. N. Symposium on Advances in Computational Mechanics, Joint ASME/ASCE Conference, Albuquerque, June, 1985.

Atluri, S. N. U.S. Army Mathematics & Mechanics Symposium, Atlanta, May, 1985.

Atluri, S. N. U.S.-Europe Workshop on Finite Elements on Nonlinear Mechanics, Norwegian Institute of Technology, Norway, August, 1985.

Atluri, S. N. University of Arizona, Tucson, Arizona, March, 1985.

Atluri, S. N. Workshop on Future Directions in Computational Structural Mechanics, NASA Langley Research Center, June, 1985.

Atluri, S. N. Sessions of Aerospace Division, ASME Winter Annual Meeting, New Orleans, December, 1984.

Atluri, S., Yang, C.-T. "An Analysis of Flow Over a Backward-Facing Step by an Assumed Stress Mixed Finite Element Method," International Conference on Laminar & Turbulent Flow, C. Taylor, Ed., Pineridge Pr., Swansea, 1984.

Atluri, S. N. "Least-Order, Stable, Invariant Hybrid Elements," 25th AIAA/ASME/ASCE/AHS Structures, Structural Dynamics, and Materials Conferences, Palm Springs, CA, May, 1984.

Atluri, S. N. International Conference on Dynamic Fracture (in honor of A.S. Kobayashi), Southwest Research Institute, San Antonio, November, 1984.

Atluri, S. N. International Symposium on Plasticity (in Honor of the 70th Birthday of Professor J.F. Bell), University of Oklahoma, August, 1984.

Atluri, S. N. Invitational Symposium on Unification of Finite Elements (in Honor of the 70th Birthday of

Professor J.H. Argyris), University of Connecticut, May, 1984.

Atluri, S. N. NATO Advanced Study Institute on Fracture of Concrete, Northwestern University, September, 1984.

Atluri, S. N. Session Chairman, ASCE Engineering Mechanics Specialty Conference, University of Wyoming, August, 1984.

Atluri, S. N. Session of Pressure Vessels & Piping Division, Joint AMD-PVP Congress, San Antonio, June, 1984.

Atluri, S. N. Session on Constitutive Modeling, ASME Winter Annual Meeting, New Orleans, December, 1984.

Atluri, S. N. Sessions on Engineering Mechanics, ASCE Spring Convention, Atlanta, May, 1984.

Atluri, S. N. Sixth International Conference on Fracture, New Delhi, India, December, 1984.

Atluri, S. N. Third International Conference on Applied Mathematical Modeling, Taipei, PR China, December, 1984.

Atluri, S. N. Tokyo Science University, Tokyo, Japan, December, 1984.

Atluri, S. N. Twelfth Southeastern Conference on Theoretical & Applied Mechanics, Callaway Gardens, 1984.

Atluri, S. N. Twenty-Fifth AIAA/ASME/ASCE/AHS Structures, Structural Dynamics, and Materials Conference, Palm Springs, May, 1984.

Atluri, S. N. Two Sessions, 6th International Conference on Fracture, New Delhi, India, December, 1984.

Atluri, S. N. University of Tokyo, Tokyo, Japan, December, 1984.

Atluri, S. N. Workshop on Future Directions in Solid Mechanics Research, NSF, Stanford Research Institute, November, 1984.

Atluri, S. N. ASME Applied Mechanics Conference, Houston, Texas, June, 1983.

Atluri, S. N. "Dynamic Crack Propagation Using J' Integral," 24th AIAA/ASME/ASCE/AHS Structures, Structural Dynamics, and Materials Conference, Lake Tahoe, Nevada, May, 1983.

Atluri, S. N. "Finite Deformation Analysis of Shells," 24th AIAA/ASME/ASCE/AHS Structures, Structural Dynamics, and Materials Conference, Lake Tahoe, Nevada, May, 1983.

Atluri, S. N. ASCE Engineering Mechanics Specialty Conference, Purdue University, May, 1983.

Atluri, S. N. ASME Pressure Vessels and Piping Conference, Portland, Oregon, June, 1983.

Atluri, S. N. Beijing Institute of Aeronautics and Astronautics, Beijing, November, 1983.

Atluri, S. N. Beijing Institute of Technology, Beijing, Republic of China, November, 1983.

Atluri, S. N. ICF International Symposium on Fracture Mechanics, Beijing, 1983.

Atluri, S. N. Institute of Mechanics, Chinese Academy of Science, Beijing, November, 1983.

Atluri, S. N. International Workshop on Elastic Structures, University of British Columbia, Vancouver, B.C., August, 1983.

Atluri, S. N. National Science Foundation Workshop on Dynamic Fracture, CalTech, 1983.

Atluri, S. N. National Tsing Hua University, Taiwan, November, 1983.

Atluri, S. N. Naval Research Labs, Washington DC, September, 1983.

Atluri, S. N. Oak Ridge National Labs, September, 1983.

Atluri, S. N. Session of the Aerospace Division, ASME Winter Annual Meeting, Boston, November, 1983.

Atluri, S. N. Shanghai University of Technology, November, 1983.

Atluri, S. N. Society of Engineering Science Meeting, University of Delaware, August, 1983.

Atluri, S. N. Southwestern Jiaotong University, Emei, Sichuan, Republic of China, November, 1983.

Atluri, S. N. Tsing Hua University, Beijing, Republic of China, November, 1983.

Atluri, S. N. US-China Workshop on Computational Mechanics, Sponsored by NSF and Chinese Ministry of Education, Dalian, PRC, August, 1983.

Atluri, S. N. University of Maryland, Department of Aerospace Engineering, February, 1983.

Atluri, S. N. Xian Jiaotong University, Xian, Republic of China, November, 1983.

Atluri, S., McGowan, J., Yang, C.-T., Nishioka, T. "Arrest of Surface Flaws in Nuclear Reactor Pressure Vessels During a Pressurized Thermal Shock Transient," International Conference on Structural Mechanics in Reactor Technology, Chicago, IL, 1983.

Atluri, S. N. Beijing Institute of Aeronautics and Astronautics, Beijing, August, 1982.

Atluri, S., Karamanlidis, D. "A Novel Family of Mixed-Hybrid-Finite Elements for 3-Dimensional Large Deformation Dynamic Analysis," 2nd International Symposium on Advances and Trends in Structural and Solid Mechanics, Washington, DC, 1982.

Atluri, S. N. "Analysis of Cracked Aircraft-Attachment Lugs," 23rd AIAA/ASME/ASCE/AHS Structures, Structural Dynamics, and Materials Conference, New Orleans, May, 1982.

Atluri, S. N. "Hybrid and Mixed FEM in Fluid Mechanics," 3rd International Conference on Finite Elements in Water Resources, University of Hannover, West Germany, 1982.

Atluri, S. N. Beijing Institute of Technology, Beijing, People's Republic of China, August, 1982.

Atluri, S. N. Department of Mechanics, University of Alabama at Tuscaloosa, November, 1982.

Atluri, S. N. International Conference of Fracture Mechanics, University of Melbourne, Australia, August, 1982.

Atluri, S. N. International Conference on Finite Elements in Flow Problems, Chuo University, Tokyo, July, 1982.

Atluri, S. N. International Workshop on Hybrid and Mixed Finite Elements, Dalian Institute of Technology, Dalian, PRC, August, 1982.

Atluri, S. N. M.I.T., Department of Ocean Engineering, Cambridge, MA, January, 1982.

Atluri, S. N. NSF Workshop on Damage and Fracture Mechanics, Stone Mountain, GA, 1982.

Atluri, S. N. Session of Elastic-Plastic Fracture, Pressure Vessel and Piping Division, ASME Winter Annual Meeting, Phoenix, AZ, November, 1982.

Atluri, S. N. Session on Aerospace Division, ASME Winter Annual Meeting, Phoenix, AZ, 1982.

Atluri, S. N. Symposium on Constitutive Modeling at Elevated Temperatures, University of Akron, OH, May, 1982.

Atluri, S. N. Symposium on Future Trends in Computerized Analysis of Structures, George Washington University, Washington, DC, November, 1982.

Atluri, S. N. Symposium on Unification of Finite Elements, Finite Differences, and Calculus of Variations, University of Connecticut, Storrs, CT, May, 1982.

Atluri, S. N. Tokyo Institute of Technology, Tokyo, Japan, July, 1982.

Atluri, S. N. Twenty-Ninth Army Sagamore Conference, Lake Placid, New York, July, 1982.

Atluri, S. N. US National Congress on Theoretical and Applied Mechanics, Cornell University, 1982.

Atluri, S., Reed, K. W., Stonesifer, R. B. "Stress and Fracture Analyses under Elastic-Plastic and Creep Conditions:-Some Basic Developments and Computational Approaches," Symposium on Nonlinear Constitutive Relations for High Temperature Applications, University of Akron, OH, 1982.

Atluri, S. N. Chinese Society of Theoretical and Applied Mechanics, Taiwan, Lecturing at National Taiwan University, Taipei, and National Tsing-Hua University, Hsinchu, Taiwan, May, 1981.

Atluri, S. N. Department of Mechanics, Rutgers University, New Brunswick, NJ, 1981.

Atluri, S. N. National Academy of Engineering Working Group for Discussing National Centers for Computational Mechanics, Washington, DC, March, 1981.

Atluri, S. N. Naval Research Labs, Washington, DC, October, 1981.

Atluri, S. N. Session of Applied Mechanics Division, ASME Winter Annual Meeting, November, 1981.

Atluri, S. N. Session of Pressure Vessels and Piping Division, ASME PVP Conference, Denver, 1981.

Atluri, S. N. Sessions of Aerospace Division, ASME Winter Annual Meeting, November, 1981.

Atluri, S. N. Symposium on New Concepts in Finite Element Methods, Applied Mechanics Division, ASME Conference, University of Colorado, Boulder, CO, June, 1981.

Atluri, S. N. US-Japan Joint Seminar on Fracture Tolerance Evaluation, University of Hawaii, HI, December, 1981.

Atluri, S., Nishioka, T. "A Major Development Towards a Cost-Effective Alternating Method for Fracture Analysis of Steel Reactor Pressure Vessels," 6th International Conference on Structural Mechanics in Reactor Technology, Paper G1/2, Paris, 1981.

Atluri, S. N. U.S.-Europe Workshop on Finite Elements in Nonlinear Mechanics, Ruhr-Universitat, Bochum, West Germany, July, 1980.

Atluri, S. N. "An Embedded Elliptical Flaw Subject to Arbitrary Loading, in an Infinite Medium," 15th International Conference on Theoretical and Applied Mechanics, IUTAM, University of Toronto, Canada, August, 1980.

Atluri, S. N. "Stress Analysis of Holes in Composite Laminates," 21st AIAA Structures, Structural Dynamics and Materials Conference, Seattle, May, 1980.

Atluri, S. N. Center for Computational Mechanics, Washington University, St. Louis, MO, 1980.

Atluri, S. N. Department of Mechanical Engineering, University of Washington, May, 1980.

Atluri, S. N. International Conference on Analytical and Experimental Fracture Mechanics, Rome, Italy, June, 1980.

Atluri, S. N. Sessions on Hybrid and Mixed Finite Elements, and Fracture Mechanics, Society of Engineering Sciences Meeting, Atlanta, December, 1980.

Atluri, S. N. Southeastern Conference on Theoretical and Applied Mechanics, Keynote Lecture Session, University of Tennessee, Knoxville, TN, May, 1980.

Atluri, S. N. Specialist Meeting on Finite Element Analysis, Washington University, St. Louis, 1980.

Atluri, S., Nishioka, T. "Analysis of a Propagating Central Crack in a Finite Plate," International Conference on Analytical and Experimental Fracture Mechanics, Rome, Italy, 1980.

Atluri, S. N. "Influence of Flaw Shapes on Stress Intensity Factors for Beltline Cracks," National Congress on Pressure Vessel Technology, San Francisco, June, 1979.

Atluri, S. N. "Finite Elasticity Solutions Using Hybrid Finite Elements Based on a Complementary Energy Principle II. Incompressible Materials," 1979 Joint Applied Mechanics Fluid Conference, Niagara Falls, New York, June, 1979.

Atluri, S. N. "Finite Element Methods for Finite Strain Plasticity Problems in Metalforming," International Conference on Computational Methods in Nonlinear Mechanics (Sponsored by NSF), Austin, TX, March, 1979.

Atluri, S. N. International Conference on Computer Methods for Partial Differential Equations, Lehigh University, Bethlehem, PA, June, 1979.

Atluri, S. N. International Conference on Engineering Applications of the Finite Element Method, Hovik, Norway, 1979.

Atluri, S. N. International Conference on Fracture Mechanics in Engineering Application, Bangalore, India, March, 1979.

Atluri, S. N. International Conference on Structural Mechanics in Reactor Technology, Panelist, and Session Chairman, Berlin, West Germany, August, 1979.

Atluri, S. N. Session on Fracture Mechanics, ASCE Engineering Mechanics Specialty Conference, University of Texas, Austin, TX, September, 1979.

Atluri, S. N. Society of Engineering Science Meeting, Northwestern University, Evanston, IL, September, 1979.

Atluri, S. N. Symposium on Advances in Theory and Practice of Finite Element Methods, Centennial Celebration of the Chalmers University, Goteborg, Sweden, August, 1979.

Atluri, S. N. Symposium on Nonlinear & Dynamic Fracture Mechanics, ASME Winter Annual Meeting, 1979.

Atluri, S. N. University of College of Cork, Republic of Ireland, August, 1979.

Atluri, S., Kathiresan, K. "Corner Cracks at Pressure-Vessel-Nozzle Junctions," 5th International Conference on Structure Mechanics in Reactor Technology, Commission of the European Committees, Berlin, German, Paper G-4/3, 1979.

Atluri, S., Kobayashi, A. S., Cheng, J., Emery, A. F., Love, W. J. "Elastic-Plastic Analysis of a Three-Point Bend Specimen and a Fracturing Pipe," US-Japan Seminar on Elastic-Plastic Fracture, Hyama, Japan, 1979.

Atluri, S. N. Short Course on Recent Developments in Finite Element Methods, MIT, July, 1978.

Atluri, S. N. "An Efficient Assumed Stress Finite Element Method for Analysis of Angle-Ply Laminates," 15th Meeting of Society of Engineering Science, University of Florida, December, 1978.

Atluri, S. N. "Edge-Function Method of 3-D Elasticity," 8th U.S. National Congress (Quadrennial) on Applied Mechanics, UCLA, Los Angeles, June, 1978.

Atluri, S. N. "Finite Elasticity Solutions Using Hybrid Finite Elements Based on a Complementary Energy Principle," ASME Winter Annual Meeting, San Francisco, December, 1978.

Atluri, S. N. "Hybrid Finite Element Models in Linear and Nonlinear Fracture," International Conference on Numerical Methods in Fracture, Swansea, UK, January, 1978.

Atluri, S. N. "Stress Analysis of Typical Flaws in Aerospace Structural Components," 19th AIAA/ASME Structures, Structural Dynamics and Materials Conference, Bethesda, MD, March, 1978.

Atluri, S. N. Department of Mathematical Physics, University College of Cork, Ireland, 1978.

Atluri, S. N. IUTAM Symposium on Variational Methods in the Mechanics of Solids, Northwestern University, Evanston, IL, August, 1978.

Atluri, S. N. International Conference on Applied Numerical Modeling, University of Madrid, Madrid, Spain,

September, 1978.

Atluri, S. N. International Conference on Recent Advances in Boundary Element Methods, MIT, July, 1978.

Atluri, S. N. Joint AFOSR/AFRPL Rocket Propulsion Research Conference, Edwards Air Force Base, CA, March, 1978.

Atluri, S. N. Short Course on Approximate Methods of Analysis, University of Tennessee Space Institute, Tullahoma, TN, March, 1978.

Atluri, S. N. "Outer Surface Flaws in Pressure Vessels," 4th International Conference on Structural Mechanics in Reactor Technology, San Francisco, August, 1977.

Atluri, S. N. "A Finite Element Analysis of Stable Crack Growth-I," ASTM National Symposium on Elastic-Plastic Fracture, Atlanta, November, 1977.

Atluri, S. N. "Fracture Initiation in Plane Ductile Fracture Problems," 3rd International Congress on Pressure Vessel Technology, Tokyo, April, 1977.

Atluri, S. N. "On the Formulation and Application of Rational Numerical Methods for Problems with Nonremovable Singularities," International Symposium on Innovative Numerical Methods in Engineering Science, Paris, May, 1977.

Atluri, S. N. "Stress Intensity Factors for Surface Flaws in Pressurized Cylinders," 3rd International Congress on Pressure Vessel Technology, Tokyo, April, 1977.

Atluri, S. N. "Surface Flaws in Plates," 14th Annual Meeting of Society of Engineering Science, Lehigh University, Bethlehem, PA, November, 1977.

Atluri, S. N. "Through Flaws in Plates in Bending," 4th International Conference on Structural Mechanics in Reactor Technology, San Francisco, August, 1977.

Atluri, S. N. International Conference on Finite Elements in Nonlinear Solid Mechanics, Geilo, Norway, August-September, 1977.

Atluri, S. N. International Conference on Fracture Mechanics and Technology, Hong Kong, 1977.

Atluri, S. N. International Symposium on Innovative Numerical Methods in Engineering Science, Paris, May, 1977.

Atluri, S. N. Ninth SAMPE National Conference, Atlanta, October 1977.

Atluri, S. N. Panel on Elastic-Plastic Fracture Methodology, International Conference on Pressure Vessel Technology, Tokyo, May, 1977.

Atluri, S. N. Session on Fracture Mechanics, ASCE Engineering Mechanical Specialty Conference, University of North Carolina, May, 1977.

Atluri, S., Nakagaki, M. "Stress Analysis of Cracks in Elasto-Plastic Range," 4th Quadrennial International Conference on Fracture, University of Waterloo, Ontario, Canada, June, 1977.

Atluri, S. N. "Fracture Analysis Under Large-Scale Plastic Yielding Conditions," 10th U.S. National Conference on Fracture, American Society for Testing and Materials, Philadelphia, PA, 1976.

Atluri, S. N. "J-Integral Estimation Procedures for Strain-Hardening Materials," AIAA/ASME/SAE Structures, Structural Dynamics, and Materials Specialist Conference, Valley Forge, PA, 1976.

Atluri, S. N. "On a 3-D Singularity Element for Computation of Mixed-Mode Stress Intensities," 13th Annual Society of Engineering Science Meeting, NASA Langley, Hampton, VA, November, 1976.

Atluri, S. N. "Post-Yield Analysis of a Three-Point-Bend Fracture Test Specimen," 8th Southeastern Conference on Theoretical and Applied Mechanics, VPI & SU, Blacksburg, VA, April, 1976.

Atluri, S. N. Specialist Workshop on 3-D Fracture Mechanics and Technology, Hong Kong, May, 1976.

Atluri, S. N. "An Assumed Displacement Hybrid Finite Element Model for Three-Dimensional Linear Fracture Mechanics Analysis," 12th Annual Society of Engineering Science Meeting, University of Texas, Austin, October, 1975.

Atluri, S. N. "Analysis of Two-Dimensional Problems Involving Large-Scale Yielding," 12th Annual Society of Engineering Science Meeting, University of Texas, Austin, October, 1975.

Atluri, S. N. "Boundary Integral Equation Formulation for Three-Dimensional Elasticity Problems with Body Forces," 5th Canadian Congress of Applied Mechanics, New Brunswick, Canada, June, 1975.

Atluri, S. N. "Brain-Tissue Fragility:-A Finite Strain Analysis by a Hybrid Finite Element Method," ASME:-Applied Mechanics Western Conference, University of Hawaii, Honolulu, March, 1975.

Atluri, S. N. "Large-Scale Yielding Fracture Mechanics," Committee E-24 Meeting, 9th National Symposium on

Fracture, University of Pittsburgh, PA, August, 1975.

Atluri, S. N. "Nonlinear Stress Analysis of Pneumatic Structures," 5th Canadian Congress of Applied Mechanics, New Brunswick, Canada, June, 1975.

Atluri, S. N. "Rotationally Symmetric Bending of Orthotropic Conical Shells:-Transverse Shear and Couple Shear Stress-Stress Couple Effects," 14th Midwestern Mechanical Conference, University of Oklahoma, Norman, March, 1975.

Atluri, S. N. "Three-Dimensional Linear Fracture Mechanics: Analysis by a Displacement Hybrid Finite Element Model," 3rd International Conference on Structural Mechanics in Reactor Technology, University of London, September, 1975.

Atluri, S. N. AICA International Symposium on Computer Methods for Partial Differential Equations, Lehigh University, Bethlehem, PA, June, 1975.

Atluri, S. N. ARRPL, Workshop on 3-D Fracture, CalTech, Pasadena, CA, May, 1975.

Atluri, S. N. Short Course on Approximate Methods in Engineering and Applied Science, University of Tennessee Space Institute, Tullahoma, TN, November, 1975.

Atluri, S., Kobayashi, A., Nakagaki, M. "Stress Intensity Factors of Cracked Orthotropic Plates," Conference of the Fundamental Aspects of the Deformation and Fracture of Composite Materials, Battelle Science Research Center, Seattle, WA, 1975.

Atluri, S. N. "An Assumed Displacement Hybrid Finite Element Model for Linear Fracture Mechanics," 7th U.S. National Congress of Applied Mechanics, Boulder, Colorado, June, 1974.

Atluri, S. N. "Application of an Assumed Displacement Hybrid Finite Element Model to Two-Dimensional Problems in Fracture Mechanics," AIAA/ASME/SAE 15th SDM Specialist Conference, Las Vegas, Nevada, 1974.

Atluri, S. N. "Finite Element Program for Fracture Mechanics Analysis of Composite Materials," ASTM Symposium on Fracture of High Modulus Fibers and Their Composites, National Bureau of Standards, Gaithersburg, MD, September, 1974.

Atluri, S. N. "Finite-Element Perturbation Analysis on Nonlinear Dynamic Response of Elastic Continua," 1974 International Conference on Finite Element Methods in Engineering, Sydney, Australia, September, 1974.

Atluri, S. N. "Nonlinear Flutter of a Cylindrical Shell," 7th SECTAM, Catholic University of America, March, 1974.

Atluri, S. N. "On Hybrid Stress Analysis of Laminated Shells by the Hybrid Stress Finite Element Model," International Conference on Computational Methods in Nonlinear Mechanics, University of Texas, Austin, September, 1974.

Atluri, S. N. Department of Aeronautics, Indian Institute of Sciences, Bangalore, 1974.

Atluri, S. N. General Tire & Rubber Co., Akron, Ohio, August, 1974.

Atluri, S. N. NATO Advanced Study Institute on Continuum Mechanics Aspects of Geodynamics and Rock Fracture, Reykjavik, Iceland, August, 1974.

Atluri, S. N. National Aeronautical Lab, Bangalore, India, August, 1974.

Atluri, S. N. Short Course on Singular Perturbation Methods, University of Tennessee Space Institute, Tullahoma, TN, November, 1974.

Atluri, S., Kobayashi, A. S., Nakagaki, M. "Application of an Assumed Displacement Hybrid Finite Element Procedure to Two-Dimensional Problems in Fracture Mechanics," AIAA/ASME/SAE 15th SDM Conference, Las Vegas, AIAA 74-390, 1974.

Atluri, S. N. "Influence of Large Amplitudes and Boundary Conditions on the Supersonic Flutter of a Cylindrical Shell," 4th Canadian Congress of Applied Mechanics, Montreal, Canada, May-June, 1973.

Atluri, S. N. "Mechanics of Brain Tissue Fragility," ASME Special Symposium on Biomechanics:-National Summer Conference on Applied Mechanics, Atlanta, June, 1973.

Atluri, S. N. Department of Mechanics, Illinois Institute of Technology, May, 1973.

Atluri, S. N. Department of Theoretical Mechanics, University of Illinois, Urbana, IL, 1973.

Atluri, S., Gordon, J. T. "Influence of Large Amplitudes and Boundary Conditions on the Supersonic Flutter of Cylindrical Shells," 4th Canadian Congress of Applied Mechanics, Montreal, pps. 555-556, 1973.

Atluri, S. N. "Nonlinear Oscillations of a Hinged Beam Including Nonlinear Inertia Effects," ASME Joint National and Western Applied Mechanics Seminar, University of California, San Diego, June, 1972.

Atluri, S. N. School of Medicine, University of Washington, February, 1972.

Atluri, S. N. "Nonlinear Free Oscillations of Shells," Regional Meeting of Society of Industrial and Applied Mechanics, Ellensburg, WA, November, 1971.
Atluri, S. N. Indian Institute of Technology, Kampur, India, September, 1971.
Atluri, S. N. Department of Aerospace Engineering, University of Maryland, July, 1969.