



Sitharama S. Iyengar

Ryder Professor and Director

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Startup Roles (Technical Adviser) Third
Solutions, FL Nulogix Inc., New Jersey
IYENTECH Inc., Davie, FL
Miami Design Solutions, Florida

EDUCATION

1974- **Ph.D. (Engg.), Mississippi State University, USA**

1970- **ME (Mech.Eng.), Indian Institute of Science, Bangalore, India**

1968- **BE (Mech.Eng.), UVCE-Bangalore**

RESEARCH/EDUCATIONAL INTERESTS

Distributed Sensor Networks (Theory and Application); Software for Detection of Critical Events
Autonomous Systems; Computational Medicine, Bio-informatics, Artificial Intelligence, and Bio-
Computing, Distributed Systems; Effective Leadership and Practice in Administrative Roles (Built Many
Educational Programs at many Universities in USA which have attained top 30 ranking).



FIU, Miami



LSU, Baton Rouge



MSU Bell Tower



Indian Institute of Science



UVCE, Bangalore



Oak Ridge National
Lab



BRIEF BIOGRAPHY

S.S.Iyengar is currently the Ryder Professor of Computer Science and Director of the School of Computing and Information Sciences at Florida International University, Miami. He has been involved with research in high-performance Algorithms, Data Structures, Sensor Fusion, Data Mining, and Intelligent Systems. Since receiving his Ph.D.degree in 1974 from MSU, USA, he has directed over 50 Ph.D.students, 100Master's students, and many undergraduate students who are now faculty at Major Universities world wide or Scientists or Engineers at National Labs/Industries around the world. He has published more than 500 research papers, has authored/co-authored and edited 22 books.

His books are published by MIT Press, John Wiley and Sons, CRC Press, Prentice Hall, Springer Verlag, IEEE Computer Society Press, etc. One of his book stitled" Introduction to Parallel Algorithms" has been translated to Chinese. During the last thirty years Dr.Iyengar has brought in over 65 million dollars for research and education. He has providing the students and faculty with avision for active learning and collaboration at Louisiana State University, Florida International University, and across the world.

His research has been funded by National Science Foundation(NSF), Defense Advanced Research Projects Agency(DARPA), Multi-University Research Initiative(MURIProgram), Office of Naval Research(ONR), Department of Energy/Oak Ridge National Laboratory (DOE/ORNL), Naval Research Laboratory (NRL), National Aeronautics and Space Administration (NASA), US Army Research Office(URO), and various state agencies and companies. He has served on US National Science Foundation and National Institute of Health Panels to review proposals in various aspects of Computational Science and has been involved as an external evaluator (ABET-accreditation) for several Computer Science and Engineering Departments across the country and the world. Dr.Iyengar has also served as are search proposal evaluator for the National Academy.

Dr.Iyengar is a Member of the European Academy of Sciences, a Fellow of the Institute of Electrical and Electronics Engineers (IEEE), a Fellow of the Association of Computing Machinery (ACM), a Fellow of the American Association for the Advancement of Science(AAAS),and Fellow of the Society for Design and Process Science (SDPS). He was awarded Satish Dhawan Chaired Professorship at IISc, then Roy Paul Daneal Professorship at LSU. He has received the Distinguished Alumnus Award of the Indian Institute of Science. In1998, he was awarded the IEEE Computer Society's Technical Achievement Award and is an IEEE Golden Core Member. Professor Iyengar is an IEEE Distinguished Visitor, SIAM Distinguished Lecturer, and ACM National Lecturer. In 2006, his paper entitled, A Fast Parallel Thinning Algorithm for the Binary Image Skeletonization, was the most frequently read article in the month of January in the International Journal of High Performance Computing Applications. His innovative work called the Brooks- Iyengar algorithm alongwith the Prof.Richard Brooks from Clemson University is applied in industries to solve real-world applications. Dr.Iyengar's work has a big impact; in 1988. We discovered "NC algorithms for Recognizing Chordal Graphs and K-trees" [IEEE Trans. On Computers 1988]. This break through resultled to the extension of designing fast parallel algorithms by researchers like J.Naor (Stanford), M.Naor (Berkeley), and A.A.Schaffer (AT&TBellLabs). Professor Iyengar earned his undergraduate and graduate degrees at UVCE-Bangalore and the Indian Institute of Science, Bangalore and a doctoral degree from Mississippi State University.

He is currently the Ryder Professor Director of the Department of Computer Science Florida International University. He has been a Visiting Professor or Scientist at Oak Ridge National Laboratory, Jet Propulsion Laboratory, Naval Research Laboratory, and has been awarded the Satish Dhawan Visiting Chaired Professorship at the Indian Institute ofScience, the Homi Bhaba Visiting Chaired Professor (IGCAR), and a professorship at the University of Paris -Sorbonne.
