



**Princeton / Central Jersey  
And Jersey Coast Sections  
Awards  
2018**

*Awards Dinner*  
*Thursday, June 7<sup>TH</sup> 2018*

Colts Neck Inn and Chophouse  
Colts Neck, New Jersey

**AGENDA**

- 7:00PM Meet and greet  
7:30PM Sit for presentation of the Awards  
8:00PM Dinner begins  
8:30PM Keynote Talk by Dr Triolo

**EXECUTIVE COMMITTEES**

**PCJS**

**NJ COAST**

**Francis O'Connell**  
SECTION CHAIR

**Irfan Lateef**  
SECTION CHAIR

**Nagi Naganathan**  
VICE CHAIR

**Ajit Reddy**  
VICE CHAIR

**Deepak Kataria**  
TREASURER

**Filomena Citarella**  
TREASURER

**Roger Ding**  
SECRETARY

**Claude Martell**  
SECRETARY

# Tony Triolo, Ph.D.

## Chief Scientist and Senior Manager- Vencore Labs

Dr. Anthony Triolo has been with Vencore Labs since 2001, originally Telcordia Applied Research, and currently serves as Chief Scientist and Senior Manager in the Wireless Systems and Networks Research department. He holds a

Ph.D. in Electrical Engineering specializing in Electromagnetic theory. Dr. Triolo was previously a Member of Technical Staff at Lucent Technologies Bell Laboratories in the Wireless Forward Looking Research lab. Dr. Triolo has led efforts in areas related to propagation measurement and modeling, antenna and power amplifier design, array based signal processing techniques, spectrum management, and cognitive radio architecture and operation.

He has been playing guitar since age eight, and has sung and played guitar in many amateur and semi-professional bands. He's been searching for that "perfect" guitar sound for as many years as he can remember, which led him to examine the differences between solid state and tube-based guitar amplifiers. He'll share some of the history of amplified guitar sound in modern music and how tube amplifiers have been the driver behind that distinctive guitar sound.

Users' Committee (chair: 1991-1995).



## CHAPTERS – New Jersey Coast Section

1. Photonics/Microwave techniques/Electron Devices joint chapter: Chair: Anjali Agarwal, Ph.D.
2. EMC Society, Antennas Propagation society, Vehicular Technology Society joint chapter: Chair: K. Raghunandan
3. Computer and Instrumentation joint chapter:  
Chair: TK Srinivas, Ph.D.
4. Signal Processing / Circuit and Systems joint chapter:  
Chair: Prakash Khanduri
5. Aerospace and Electronic Systems / Technical Management joint chapter: Chair: Kedar Padhke
6. Communications Society chapter:  
Chair: Irfan Lateef
7. Power and Energy Society chapter:  
Chair: Frank Feather
8. Computer Society / Communication Society joint chapter:  
Chair: Thomas Liu
9. Education Society chapter:  
Chair: Margaret Lyons

### New Jersey Coast Affinity Groups

1. Women in Engineering Affinity Group:  
Chair: Mihaela Dinu
2. Consultants Network Affinity Group:  
Chair: Madhav Phadke, Ph.D.
3. Life Members Affinity Group:  
Chair: Manu Malek, Ph.D.
4. Professional Activities Committees for Engineers (PACE):  
Chair – Katherine August, Ph.D.

## CHAPTERS – PCJS

AP/ED/MTT Joint Chapter: Al Katz chair, Michael Wu and Li Zhu co-vice-chair

Broadcast Technology Society: Joe Stack, chair

Computer Society: Rebecca Mercuri, chair; Ed Levinson, vice-chair

Circuits and Systems Society: Zoran Gajic, chair

Consumer Electronics Communications Joint Society  
Ashutosh Dutta, chair; Deepak Kataria, vice chair

Education Society: Ashutosh Dutta and Sam Adhikari:  
co-chair

Engineering in Medicine and Biology Society:

John Li, chair, Brett BuSha and Wenyu Wei co-vice chair

Photonics Society: Wei Jiang, chair

Robotics and Automation Society: Chao-Ying Wang,  
chair; Iwan Santoso, vice-chair

Signal Processing Society: Jerry Bellott, vice-chair

Solid-State Circuits Society: Nagi Naganathan, chair;  
Shubha Bommalingaiahnappallya, vice-chair

## Affinity Groups

Young Professionals: Katalin Frolio, chair

Consultants Network: Joe Levy, chair

PACE: Hemant Vora and Iwan Santoso co-chair

Life Members: Joe Jesson, chair Andrzej Zawadzki, vice  
chair

Women in Engineering: Forough Ghahramani, chair

Chapter Coordinator: Elias Kpodzo

Student Chapter Coordinator: Li Zhu

Nominations Committee: Joe Stack

Historians: Frank O'Brien, Alex Magoun, Rebecca Mercuri

# IEEE Region 1 Awards

## Dr. Yingying Chen



Dr. Yingying (Jennifer) Chen is a Professor in the Department of Electrical and Computer Engineering at Rutgers University. Her research interests include mobile computing, cyber security and privacy, wireless embedded systems, pervasive computing and mobile healthcare.

She is the director of the Data Analysis and Information Security (DAISY) Lab at Stevens. She has co-authored two books *Securing Emerging Wireless Systems* (Springer 2009) and *Pervasive Wireless Environments: Detecting and Localizing User Spoofing* (Springer 2014), and published over 100 journal articles and referred conference papers.

Dr. Chen is recognized is recognized by IEEE Region 1 “for Research Accomplishments and Leadership in Localization, Mobile Security & Privacy, Pervasive Computing and Mobile Healthcare”.

## Dr. Cherif Amirat



Dr. Cherif Amirat provided a vision and leadership in the development of IT strategies with a focus on digital transformation that included the development and deployment of multiple capabilities such as virtual technologies. Developed and implemented a new IEEE IT strategic plan, and restructured the IT department into a business partner model to focus it more on clients and

deliverables. Established a “One IEEE IT” model that brought all IT teams to work together under one IT governance. Leveraged the expertise to develop and teach an “IT Strategy” graduate course at Rutgers University.

Dr. Amirat is recognized by IEEE Region 1 for “Visionary Leadership in the Development of Information Technology and Management Strategies for Large Organizations”

## **Mr. Raja Gopalan**



Mr. Raja Gopalan is with New York Transit since 2007, and has more than thirty years of service in the communication systems industry. He has made significant contributions to the development of digital cellular handsets for the North-American market while at AT&T and Lucent Technologies. He has developed products and services that enabled the realization of various wireless and cellular handsets and devices, for underserved developing markets during the 1990s. He has contributed significantly to the modernization of New York City Transit’s communication systems for the Agency’s operation and for public usage.

Mr. Gopalan is recognized by IEEE Region 1 for “Outstanding Contributions to Product Development and Leadership in Wireless Communications and Embedded Control Systems”.



## THE IEEE FELLOW

The grade of Fellow recognizes unusual distinction in the profession and shall be conferred by the Board of Directors upon a person with an extraordinary record of accomplishments in any of the IEEE fields of interest. The accomplishments that are being honored shall have contributed importantly to the advancement or application of engineering, science and technology, bringing the realization of significant value to society. The nominee shall hold Senior Member grade at the time the nomination is submitted and shall have been a member in good standing in any grade for a period of five years or more preceding 1st January of the year of elevation. The year of elevation to the grade of Fellow is the year following approval by the Board of Directors conferring the grade of Fellow. Members elevated to the Fellow grade may use the title immediately following approval by the Board of Directors. All those elevated will receive a congratulatory letter, a certificate, and pin.

The IEEE Fellows are an elite group from around the globe. The IEEE looks to the Fellows for guidance and leadership as the world of electrical and electronic technology continues to evolve.



## **Congratulations to our 2018 IEEE Fellows**

### **Alexei Pilipetskii**

Tyco Telecommunications

Eatontown, NJ, USA

*for contributions to transoceanic fiber-optic transmission systems*

### **Po Dong**

Nokia Bell Labs,

Holmdel, NJ, USA

*for contributions to silicon-based photonic devices and integrated circuits*



### **Po Dong, Ph.D. IEEE Fellow**

*For contributions to silicon-based photonic devices and integrated circuits*

Dr. Po Dong currently works as the department head of the silicon photonics group at Nokia Bell Labs.

He received his PhD degree in electrical engineering from McGill University in Montreal, Canada. Before Bell Labs, he worked as a principal engineer at Kotura, Inc. He has been working in the field of silicon photonics for more than ten years and has contributed to critical breakthroughs related to energy-efficient silicon photonic devices for chip-scale interconnects and high-capacity photonic circuits for telecom/datacom applications. He has authored or coauthored about 200 journal articles and conference publications as well as three book chapters. He has worked as an associate editor of *Optics Express* for six years and has served as a committee member or chair for conferences such as the Conference on Lasers and Electro-Optics; the Integrated Photonics Research, Silicon, and Nano-Photonics Conference; and the Optical Fiber Communication Conference. He is a Fellow of both IEEE and OSA.

## Alexei Pilipetskii, Ph.D.

### IEEE Fellow



Alexei Pilipetskii received M.S. degree in physics from Moscow State University in 1985. From 1985 to 1994 he was with the General Physics Institute, Russia, where his research interests were centered on the nonlinear phenomena in optical fibers and where he received his Ph.D. in 1990. From 1994 to 1997 he was with the University of Maryland

Baltimore County, where his interests shifted to the fiber optic data transmission. In 1997 he joined AT&T Submarine Systems, currently TE SubCom, where he worked on a number of research and development projects. Alexei was a member of the Forward Looking Team focused on the transmission research and introduction of the new technologies that included new fiber types, PSK modulation formats, coherent transponders, expansion of the transmission bandwidth aimed at increase of system capacity. He currently leads the transmission research department (Forward Looking Team) at TE SubCom. He is an author and co-author of multiple journal, conference publications and more than 25 patent applications. He served through the years as a member of technical program committees for OFC, IPC, and CLEO conferences. He is TE Connectivity Fellow 2017 and IEEE Photonics Society Fellow 2018.

## **NJ Coast New Senior Members of IEEE**

Candidates for the Senior Member level must have been in practice for at least ten years as an engineer, scientist, educator, or technical executive, in an IEEE-designated field, and shall have demonstrated significant performance over at least five of those years. Elevation to Senior Member requires letters of reference and review by higher-grade colleagues.

Congratulations to the members of IEEE New Jersey Coast Section who were elevated to Senior Member.

Anthony Triolo  
Richard Cordasco  
Lynn Nelson  
Michael Caggiano  
Patrizia Bonaventure  
Jesse Simsarian  
Hana Godrich  
Rajiv Tiwari

## **New Jersey Coast Section Awards**

2017 Outstanding Section Volunteer

**Katherine August**

*for leadership & contributions to various section activities*

Supporting Friend of IEEE Member and Geographic  
Activities (MGA)

*Presented to*

**HOLMDEL LIBRARY, Holmdel, NJ**

*for providing helpful and hospitable accommodation for our technical  
talks*

Friend of the Section

**Donna Laslo**

*For her unfailing support to section activities*

**IEEE Section Leadership Awards**

**Mr. David Soll**

Executive Committee contributor for over 8 years. Leader in the Computer Society. Excellent Leadership on the Information Technology Professional Conference since 2006.

**PCJS Section Awards**

In Recognition and Appreciation of Prominent and Support to IEEE PCJS

**Alexander Magoun** for your leadership, enthusiasm, and support of the IEEE History for all to view in the future.

**Jeffery Beck** for your “can-do” attitude and support on the ISEC 2018 Conference

**Terri Ulrich** for your support on the TCF 2018 Conference on the registrations desk

**Joe Jesson** for your support on the TCF 2018 Conference and for taking charge of the Life Members Affiliate and putting on some great programs!

Friend of the Section

**Barbara O’Connell**

For your support to enhance our awards and holiday gatherings

## **Congratulations to our 2017/2018 IEEE Fellows**

### **Richard Chernock, PhD, 2018**

Princeton University

Princeton, NJ, USA

*For contributions to the management of networks and associated routing systems*

### **Jennifer Rexford, PhD, 2018**

Princeton University

Princeton, NJ, USA

*For contributions to the management of networks and associated routing systems*

### **Stephen Welby, 2018**

US Department of Defense

Washington, DC, USA

*For leadership in defense and aerospace systems engineering*

### **Rebecca Wright, PhD, 2018**

Rutgers, The State University of New Jersey

Piscataway, NJ, USA

*For contributions to applied cryptography and privacy*

### **Yanyong Zhang, PhD, 2018**

Rutgers, The State University of New Jersey

New Brunswick, NJ, USA

*For contributions to robust and efficient large-scale sensor networks*

### **Frederick Douglass, 2017**

Dell EMC Corporation

Princeton, NJ, USA

*For contributions to computer systems resource utilization and efficiency*

## IEEE PCJS New Fellows (continued)

### Michael Isnardi, PhD, 2017

SRI International

Princeton, NJ, USA

*For contributions to compliance testing and vision-based video compression technologies.*

### Chonggang Wang, PhD, 2017

InterDigital

Conshohocken, PA, USA

*For contributions to Internet of Things enabling technologies*

### Elaine Weyuker. Fellow 2003, invited guest of IEEE PCJS

Was an AT&T Fellow at Bell Labs for research in software metrics and testing as well as elected to the National Academy of Engineering.

### New Senior Members of IEEE

Congratulations to the members of IEEE Princeton / Central Jersey Section who were elevated to Senior Member between January 2017 – April 2018:

Myong Kee Jeong

Wei Jiang

Narayan Gehlot

Robert Gray

Theresa Donahoe

Sarat Puthenpura

David Li

Saad Khan

Aikaterini Varsou

Larry Pearlstein

Roger Dorval

Tong Zhang

Supratim Deb

Siddhartha Dalal

N Shankaranarayanan

## **PCJS Conferences**

Special recognition and thanks are extended to the Chairs of various aspects of our Section's Conferences and Symposia.

### **Integrated STEM Education Conference, March 16, 2018**

General Co-Chair	Susan Donohue, Ph.D.
General Co-Chair	Ashutosh Dutta, Ph.D.

### **IT Professional Conference, March 16, 2018**

Chair (2006-2018)	David Soll
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### **TCF, March 17, 2018**

Chair (2006-2018)	Allen Katz
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### **Sarnoff Symposium, September, 2017**

Chair	Deepak Kataria
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Congratulations to All Awardees!!!

Thank you for attending the 2018 Joint PCJS and Jersey Coast  
Sections Awards Banquet

We hope to see you again at the many IEEE activities  
throughout the year.

Check out our event notices at:

<http://sites.ieee.org/pcjs/>

<http://sites.ieee.org/njcoast/>

Thank you,  
Fran O'Connell and Irfan Lateef