Rabab Ward, President

IEEE Signal Processing Society

2017 IEEE International Conference on Image Processing (ICIP)
Beijing, China, September 2017

ICIP 2017 Organizing Committee

Thank you to the ICIP 2017 Organizing Committee

- **Honorary Chairs**
  - Sanjit K. Mitra (University of California at Santa Barbara, USA)
  - Baozong Yuan (Beijing Jiaotong University, China)
- **General Chair**
  - Xinggang Lin (Tsinghua University, China)
- **General Co-Chairs**
  - Anthony Vetro (Mitsubishi Electric Research Labs, USA)
  - Min Wu (University of Maryland at College Park, USA)
- **Technical Program Chairs**
  - Jiebo Luo (University of Rochester, USA)
  - Wenjun Zeng (Microsoft Research Asia, China)
  - Yu-Jin Zhang (Tsinghua University, China)

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ICIP 2017 Organizing Committee

Thank you to the ICIP 2017 Organizing Committee

- **Finance Chair**
  - Yun He (Tsinghua University, China)
- **Tutorial Chairs**
  - John Apostolopoulos (Cisco, USA)
  - Jiwu Huang (Shenzhen University, China)
- **Special Session Chairs**
  - Pascal Frossard (EPFL, Switzerland)
  - Feng Wu (Univ. of Science and Technology of China)
- **Awards Chair**
  - Philip Chou (8i Labs, USA)
- **Plenary Chair**
  - Yao Wang (New York University, USA)
  - Jiangtao Wen (Tsinghua University, China)
- **Exhibits/Demo Chairs**
  - Qionghai Dai (Tsinghua University, China)
  - Qi Tian (University of Texas at San Antonio, USA)
- **Industry Chair**
  - Jian Lu (CCTalk Cloud, China)
  - Debargha Mukherjee (Google, USA)
  - Lu Yu (Zhejiang University, China)
- **Doctoral Symposium Chair**
  - Dong Xu (University Sydney, Australia)
- **Social Media Chair**
  - Andres Kwansinski (Rochester Institute of Technology, USA)
- **Publicity Chair**
  - Chaker Larabi (Université de Poitiers, France)
- **Publication Chair**
  - Siwei Ma (Peking University,China)
- **Registration Chair**
  - Tiejun Huang (Peking University, China)
- **Local Arrangement Chairs**
  - Xilin Chen (Institute of Computing Technology, Chinese Academy of Sciences, China)
  - Shengjing Wang (Tsinghua University, China)
- **Secretary**
  - Jiansheng Chen(Tsinghua University, China)
  - Zhibo Chen (University of Science and Technology of China, China)
- **Website Chair**
  - Guijin Wang (Tsinghua University, China)

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ICIP 2017

New Events at ICIP 2017:

- Video and Image Processing Cup (VIP Cup)
- Doctoral Symposium
- Industry Programs:
  - Grand Challenges
  - Industry Workshops
  - Industry Keynotes
  - Industry Panel

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China Membership Outreach and Engagement

- In 2010-11, the Society President and officers visited Beijing, Xi'an, Hefei, Shanghai, Guongzhou, Shenzhen, and Hong Kong. As a result, two new chapters were raised (Shanghai and Guongzhou).
- In 2015, I visited China, made presentations, visited labs and our chapters in Beijing and Chengdu.
- In 2010, a Chinese translation of industry-related and other technical articles from *the IEEE Signal Processing Magazine* was published.
- In 2015, our PR video "What is Signal Processing" was translated into Mandarin.
- More recent activities include ChinaSIP and SIDAS.

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Meetings in China - ChinaSIP

- Regional conferences were held in China as a unique outreach platform to:
  - Help colleagues in China engage with global community
  - Provide opportunities to network
  - Professional development panels and industry panels
  - Some were complemented by a summer school

- ChinaSIP 2013 was held in Beijing
  - General Chairs: *Thomas Fang Zheng* and *Zhi Ding*

- ChinaSIP 2014 was held in in Xi'an
  - General Chairs: *Mingyi He* and *Kung Yao*

- ChinaSIP 2015 was held in Chengdu
  - General Chairs: *Dezhong Yao* and *Yingbo Hua*

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Meetings in China - ChinaSIP

- ICASSP 2016 was held in Shanghai
  - General Chairs: *Zhi Ding, Zhi-Quan Luo, Wenjun Zhang*

- ICIP 2017 is being held in Beijing
  - General Chairs: *Xinggang Lin, Anthony Vetro, Min Wu*

New - IEEE SPS Signal and Data Science Forum (SIDAS)

- For Education, Networking and Community Building.
- Similar to the VALSE Format.
- No paper submission, but rather **Invited Talks**, **Plenaries, Panels** and **Posters**, giving highlights of recent selected journals, conference works and new technological advancements.
  - 25-26 April 2016 in Wuhan, China
  - September 2017, Beijing, China

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Society Elections –Vote by 2 October!

The candidates for member-at-large

Mauro Barni

Mario Figueiredo

Hamid Krim

Shoji Makino

Patrick Naylor

Athina P. Petropulu

Konstantinos (Kostas) N. Plataniotis

Carlo Regazzoni

Paris Smaragdis

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Society Elections – Vote by 2 October!

The candidates for regional director-at-large

Regions 7 and 9

Eduardo A.B. Da Silva

Timothy N. Davidson

Fabrice Labeau

Region 10

K.V.S. Hari

Kin-Man (Kenneth) Lam

Wing-Kin (Ken) Ma

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Society Elections – Vote by 2 October!

- **Deadline:** 2 October
- **Who Can Vote:** Active IEEE Members or Affiliates on the record as of 1 August 2017 holding the membership grade of Graduate Student Member (GSM) or higher.
- **How to Vote:** https://eballot4.votenet.com/IEEE

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IEEE Annual Elections – Vote by 2 October!

2018 IEEE President Elect Candidates:

JOSÉ M. F. MOURA

VINCENZO PIURI

JACEK M. ZURADA

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IEEE Annual Elections – Vote by 2 October!

2018 IEEE Technical Activities Vice President-Elect Candidates:

K. J. RAY LIU

DOUGLAS N. ZUCKERMAN

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IEEE Elections – Vote by 2 October!

- **Deadline**: 2 October
- **Who Can Vote:** Active IEEE Members on the record as of 30 June holding the membership grade of Graduate Student Member (GSM) or higher.
- **How to Vote:** https://www.directvote.net/ieee/

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SPS Resource Center

Watch Conference Keynotes & Plenaries, Tutorials and more: **http://rc.signalprocessingsociety.org/**

ICIP 2017 videos will be available soon

SigPort

Signal Processing Repository – www.sigport.org

- **Serving Conferences** by hosting presentation slides and posters
  - Serving conference attendees *before*, *during* and *after* the conferences
- **Providing an early citable access and high visibility**
  - Total number of downloads: **247,692**
  - ICASSP'16 – **126** downloads per presentation/poster
  - Globalsip'16 – **53** download per presentation/poster

  - **ICIP 2017**, on Sept 15 (2 days before the conference)
    - 360+ slides and posters uploaded
    - 5 documents with 200+ downloads, most documents have 2-20 downloads. (These numbers increases hourly.)

Signal Processing Cup Competition Project Report
@ SigPort

Signal Processing Magazine Student Design Project Series
@ SigPort

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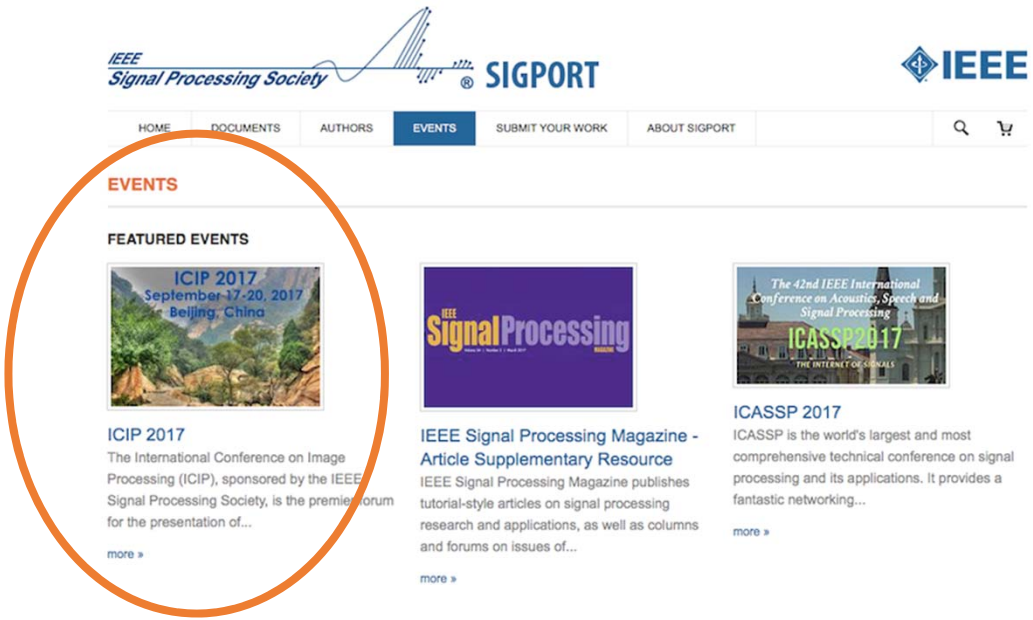
SigPort: Slides/Poster

Please post your slides/poster to the IEEE SigPort repository, http://www.sigport.org

- Raise visibility and extend the reach of your work
- See ICIP 2017 web for instructions



~ 400 uploads so far !

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SigPort

SigPort.org Do you know? Your colleagues are archiving slides of their signal processing work on IEEE SigPort.

The slides and posters you spent hours to make are highlights of your work. Aren't they "forgotten" soon after conference presentations or thesis defense?

IEEE Signal Processing Society's SigPort repository helps extend the life of your slides and posters, and raise the visibility of your work. SPS Members upload FREE in 2017!

- **Promote your work more and sooner than IEEE Xplore**: ICASSP slides and posters posted on SigPort received an average of 30+ downloads within two months.
- **How?** Login on www.sigport.org using IEEE web account credentials. Go to "submit your work" on the top menu and use promotion code you14200 for free upload.
- **Beyond slides and posters:** SigPort welcomes research drafts, white papers, theses, slides, posters, lecture notes, dataset descriptions, product brief, and more. Send questions or comments through www.sigport.org/contact .

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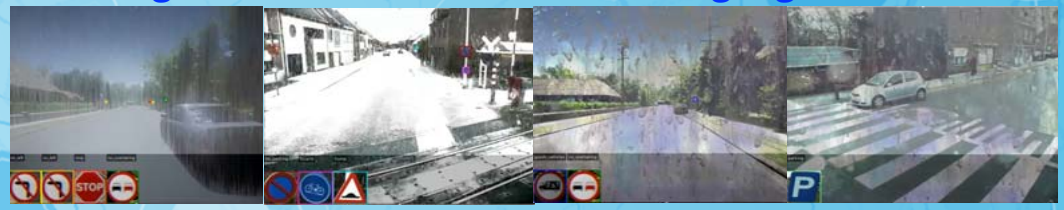
VIP Cup

ghassanalregib.com/vip-cup/

Organized by Prof. Ghassan AlRegib, Georgia Tech
Overseen by Prof. Patrizio Campisi, Chair of Student Serv. Cmte.

Traffic Sign Detection Under Challenging Conditions



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Competition Jury

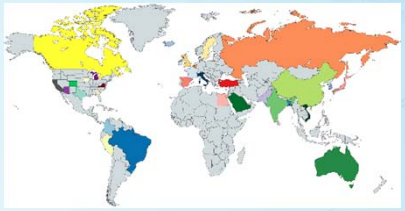
Amy Reibman

Beatrice Pesquet

Patrizio Campisi

Ghassan AlRegib

Participants: 250+ team form 28+ countries at the start line



- **Grand Prize:**
  $5,000 + Travel Fund
- **2nd Prize:**
  $2,500 + Travel Fund
- **3rd Prize:**
  $1,500 + Travel Fund

Members from **OLIVES** Lab @Georgia Tech created the dataset (CURE-TSD) and ran all submission codes

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2017 VIP Cup

Video and Image Processing Competition

ghassanalregib.com/vip-cup/

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Name of Challenge: *Traffic Sign Detection Under Challenging Conditions*

Winning Team: Neurons

Institution: Bangladesh University of Engineering and Technology

Supervisor: Md. Kamrul Hasan

Students: Uday Kamal, Sowmitra Das, Abid Abrar

Grand Prize: $5,000 + up to $5,100 travel fund

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2017 VIP Cup

Video and Image Processing Competition

ghassanalregib.com/vip-cup/

IEEE Signal Processing Society

Name of Challenge: *Traffic Sign Detection Under Challenging Conditions*

First Runner-Up Team: PolyUTS

Institution: University of Technology Sydney, Hong Kong Polytechnic University, University of New South Wales

Supervisor: Xiangjian He

Students: Weixi Feng, Aung Min, Jiawei Zhang, Chenhang He, Hardy Zhu, Wenqi Jia

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2017 VIP Cup

Video and Image Processing Competition

ghassanalregib.com/vip-cup/

IEEE Signal Processing Society

Name of Challenge: *Traffic Sign Detection Under Challenging Conditions*

Second Runner-Up Team: Markovians

Institution: Bangladesh University of Engineering and Technology

Supervisor: Mohammad Ariful Haque

Students: Sayeed Shafayet Chowdhury, Ahmed Maksud, Jubaer Hossain, Kinjol Barua, Roknuzzaman Rokon, Muhammad Suhail Najeeb, Nahian Ibn Hasan, Shahruk Hossain, Shakib Zaman, SM Raiyan Chowdhury

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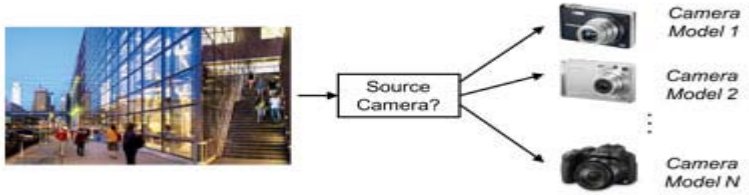
2018 Signal Processing Cup

- **Topic:** FORENSIC CAMERA MODEL IDENTIFICATION CHALLENGE
  - Determine model of camera that captured a digital image without relying on image's metadata



- **Who Can Participate**: Teams of 3 to 10 undergraduate students, at most one graduate student and one faculty member
- **Prizes**: $5000, plus travel grants for each of the 3 top teams to showcase their work at ICASSP 2018 in Seoul, Korea
- **Important Deadlines**: December 1, 2017 Team Registration

  January 21, 2018 Project Submission
- **URL**: http://signalprocessingsociety.org/get-involved/signal-processing-cup

IEEE

Multimedia
Forensics

IEEE/SPS Membership

- The IEEE Signal Processing Society is one of the most dynamic of IEEE's technical worldwide.
- Our members keep abreast of innovations & opportunities in the expanding number of signal processing disciplines
- In order to maintain your Society benefits and services in the coming year, you are encouraged to renew your membership.

- The 2018 membership renewal window has opened and can easily be done online at: https://www.ieee.org/membership_services/membership/renew/index.html.

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Refer a Student or Colleague

Refer a Student or Colleague to Join SPS

A Membership in the IEEE Signal Processing Society (SPS), the IEEE's first society, can help you lay the foundation for many years of success ahead:

- **CONNECT** with more than 19,000 signal processing professionals through SPS conferences, and local events hosted by more than 170 SPS Chapters worldwide.
- **SAVE** with member discounts on conferences and publications, and access to travel grants, SigPort repository, and SPS Resource Center.
- **ADVANCE** with world-class educational resources, awards and recognitions, and society-wide volunteer opportunities in publications, conferences, membership, and more.

Learn more about membership options (including choices of electronic access and print option of the *IEEE Signal Processing Magazine*, SPS Digital Library, and more):
http://signalprocessingsociety.org/get-involved/membership

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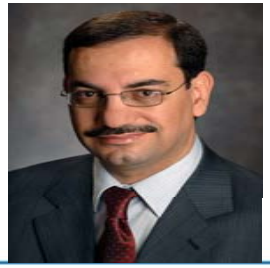
What Can We Do for You?

- **President**: Rabab Ward
- **President-Elect**: Ali H. Sayed
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- **Vice President-Conferences**: Carlo Regazzoni
- **Vice President-Publications**: Thrasyvoulos N. Pappas
- **Vice President-Technical Directions**: Walter Kellermann