

# PEDSTC 2010 Conference:

## At a glance

Initial PEDSTC idea was formed by members of power electronics society of Iran (PESI), in early 2009.

- The conference goal is to provide an opportunity for interested researchers and industry sector to convene and exchange ideas in this field for the first time in Iran.
- PEDSTC 2010 was held on 17-18 February 2010 in Tarbiat Modares University campus, Tehran, Iran.



## PEDSTC 2010 Organizing Committee

- |                                 |               |   |
|---------------------------------|---------------|---|
| • Honorary General Chair        | S. Vaez-Zadeh | University of Tehran (member IES)               |
| • General Chair                 | A. Yazdian    | Tarbiat Modares University (member IES)         |
| • Vice Chair                    | M. Mohamadian | Tarbiat Modares University (member IES)         |
| • Technical Program Chair       | Sh. Farhangi  | University of Tehran (member IES)               |
| • Treasury Chair                | A. Yazdian    | Tarbiat Modares University (member IES)         |
| • Tutorial Chair                | A. Radan      | Khajeh Nasir Toosi University (member IES)      |
| • International Publicity Chair | H. Mokhtari   | Sharif University of Technology (member IES)    |
| • Publications Chair            | S.H. Fathi    | Amirkabir University of Technology (member IES) |
| • Industry & Exhibition Chair   | D. A. Khaburi | Iran Univ. of Science & Technology              |
| • Conference Web Chair          | MF. Tahami    | Sharif University of Technology (member IES)    |

## PEDSTC 2010 Technical Program Committee

- **Hamid A. Toliyat**, Texas A&M University United States
- **A. Shoulaie**, Iran University of Science & Technology
- **Kamal Al-Haddad**, Ecole de technologie Canada
- **E. Farjah**, University of Shiraz Iran

- **Sh. Saadate**, University of Nancy France
- **M.R. Zolghadri**, Sharif University of Technology Iran
- **Babak Fahimi**, The University of Texas at Arlington United States
- **G.A. Capalino**, University of Picardie France
- **J. Soltani**, Azad University Iran
- **Ing. Ralph Kennel**, Technical University of Munich, Germany
- **Sh. Farhangi**, University of Tehran Iran
- **A. Yazdani**, University of Western Ontario Canada
- **J. Feiz**, University of Tehran Iran
- **H. Hosseini**, University of Tabriz Iran
- **H. Fathi**, Amirkabir University of Technology Iran
- **E. Afjei**, Shahid Beheshti University Iran
- **Dierk Schroeder**, Technical University of Munich, Germany
- **M. Tavakoli Bina**, Khajeh Nasir Toosi University Iran
- **Dierk Schroeder**, Technical University of Munich, Germany
- **H.Farzaneh-fard**, Isfahan University of Technology
- **Ali Emadi**, Illinois Institute of Technology United States
- **Mehrdad Kazerani**, University of Waterloo Canada

### **Registration Fee**

• PEDSTC 2010 Registration Fee:

– International Participants:

• Full Registration: \$400

• Student Registration: \$200

– Domestic Participants:

• Full Registration: \$200

• Student Registration: \$100

– 20% Discount for IEEE members



Keynote Speaker: Prof. T.A.Lipo

### **Paper Review Criteria**

• Full manuscripts is reviewed by 3 - 5 reviewers.

• Papers will be reviewed based on:

– Quality

- Originality
- general interest
- English language
- Duplication
- Online review forms are available to reviewers to evaluate the papers.
- Papers with conflicting opinions is reviewed by at least two technical committee members for final decision.

### **PEDSTC Statistics**

	<b>PEDSTC 2010</b>
<b>Number of submissions</b>	186
<b>Number of accepted papers</b>	82
<b>Countries of accepted papers</b>	Iran and 3 other countries
<b>Number of participants</b>	150
<b>Countries of participants</b>	Iran and 2 other countries
<b>Submission system</b>	Web Based
<b>Number of reviewers per papers</b>	At least 3
<b>Data base of reviewers</b>	104 reviewers, Iran: 91, United States: 6, France: 2, Australia: 1, Canada: 3, Qatar: 1
<b>Number of no-shows</b>	5

# PEDSTC 2011 Conference:

## At a glance

Initial PEDSTC idea was formed by members of power electronics society of Iran (PESI), in early 2009.

The conference goal is to provide an opportunity for interested researchers and industry sector to convene and exchange ideas in this field for the first time in Iran.

PEDSTC 2011 was on 16-17 February 2011 in University of Tehran campus, Tehran, Iran.



PEDSTC 2011 Conference

## PEDSTC 2011 Organizing Committee

General Chair	S. Vaez-Zadeh	University of Tehran (member IES)
Vice Chair	S. Afsharnia	University of Tehran
Technical Program Chair	Sh. Farhangi	University of Tehran (member IES)
Treasury Chair	H. Iman-Eini	University of Tehran
Tutorial Chair	H. Mokhtari	Sharif University of Technology (member IES)
International Publicity Chair	M. Tavakoli Bina	Khajeh Nasir Toosi University (member IES)
Publications Chair	S.H. Fathi	Amirkabir University of Technology (member IES)
Industry Chair	H.R Tayebi	Jahad Daneshgahi
Exhibition Chair	D. A. Khaburi	Iran Univ. of Science & Technology
Conference Web Chair	M. Mohamadian	Tarbiat Modares University (member IES)
PEDSTC 2010 Chair	A.Yazdian	Tarbiat Modares University (member IES)

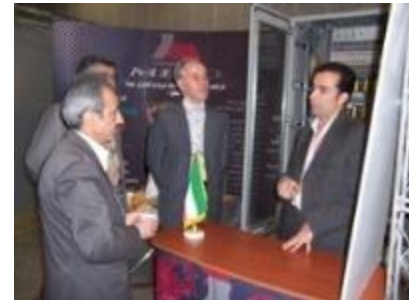
## PEDSTC 2011 Technical Program Committee:

- **Thomas Lipo**, University of Wisconsin-Madison, USA, (IES Life Fellow)
- **Hamid A. Toliyat**, Texas A&M University, USA, (IES Fellow)
- **Kamal Al-Haddad**, Ecole de Technologie, Canada, (IES Fellow) (IES Vice President for Technical Activities)
- **Gerard A. Capolino**, University of Picardie, France, (IES Fellow) (IES President Elect)
- **Hiroyuki Ohsaki**, University of Tokyo, Japan
- **Jean-Luc Schanen**, G2E Lab, France
- **Yan-Fei Liu**, Queen's University, Canada
- **Babak Fahimi**, University of Texas- Arlington, USA
- **Alireza Bakhshai**, Queen's University, Canada
- **Okyay Kaynak**, Bogazici University, Turkey, , (IES Fellow)
- **Olorunfemi Ojo**, Tennessee Technological University, USA
- **Ming CHENG**, Southeast University, China
- **Bulent Ertan**, Middle East Technical University, Turkey
- **Abbas Shoulaie**, Iran University of Science & Technology, Iran
- **Javad Feiz**, University of Tehran, Iran
- **Seyed Hosein Hosseini**, University of Tabriz, Iran

- **Ebrahim Afjei, Shahid Beheshti University, Iran**
- **Hamid Fathi, Amirkabir University of Technology, Iran**
- **Hosein Farzaneh-Fard, Isfahan University of Technology, Iran**
- **Ahmad Radan, Khajeh Nasir Toosi University, Iran**
- **Mohamad Tavakoli Bina, Khajeh Nasir Toosi University, Iran**
- **Mohammad Reza Zolghadri Sharif University of Technology, Iran**
- **Farzad Tahami, Sharif University of Technology, Iran**
- **Sadegh Vaez-Zadeh, University of Tehran, Iran**
- **Shahrokh Farhangi, University of Tehran, Iran**
- **Ali Yazdian, Tarbiat Modares University**
- **Mustafa Mohamadian, Tarbiat Modares University**
- **Jafar Milimonfared, Amirkabir University of Technology, Iran**
- **Ebrahim Farjah, University of Shiraz, Iran**

### **Registration Fee**

- PEDSTC 2011 Registration Fee:
  - International Participants:
    - Full Registration: \$400
    - Student Registration: \$200
  - Domestic Participants:
    - Full Registration: \$200
    - Student Registration: \$100
  - 20% Discount for IEEE members



Exhibition 2011 PEDSTC Conference

### **Paper Review Criteria**

- Full manuscripts is reviewed by 3 - 5 reviewers.
- Papers will be reviewed based on:
  - Quality
  - Originality
  - general interest
  - English language
  - Duplication.
- Online review forms are available to reviewers to evaluate the papers.
- Papers with conflicting opinions is reviewed by at least two technical committee members for final decision.



Keynote Speaker: Prof. F.Blaabjerg

### PEDSTC Statistics

	<b>PEDSTC 2011</b>
<b>Number of submissions</b>	281
<b>Number of accepted papers</b>	119
<b>Countries of accepted papers</b>	Iran and 4 other countries
<b>Number of participants</b>	255
<b>Countries of participants</b>	2
<b>Submission system</b>	Web Based
<b>Number of reviewers per papers</b>	At least 3
<b>Data base of reviewers</b>	160 reviewers, Iran:150, Canada: 5, United States: 3, France: 2
<b>Number of no-shows</b>	6

# PEDSTC 2012 Conference:

## At a glance

Initial PEDSTC idea was formed by members of power electronics society of Iran (PESI), in early 2009.

The conference goal is to provide an opportunity for interested researchers and industry sector to convene and exchange ideas in this field for the first time in Iran.

PEDSTC 2012 was held on 15-16 February 2012 in Sharif University of Technology campus, Tehran, Iran.



PEDSTC Conference 2012

## PEDSTC 2012 Organizing Committee

Honorary General Chair	R. Roosta Azad	Sharif University of Technology
General Chair	H. Oraee	Sharif University of Technology
Vice Chair	H. Mokhtari	Sharif University of Technology
Technical Program Chair	M. Zolghadri	Sharif University of Technology
Treasury Chair	M. Parniani	Sharif University of Technology
Technical Chair	A. Radan	Khajeh Nasir Toosi University
Publications Chair	Sh. Kaboli	Sharif University of Technology
Industry & Exhibition Chair	H. Tayebi	President of JDEVS
Conference Web Chair	M. Mohamadian	Tarbiat Modares University
PEDSTC 2011 Chair	S. Vaez-Zadeh	University of Tehran

## PEDSTC 2012 Technical Program Committee

- **Ebrahim Afjei**, ShahidBeheshti University, Iran
- **Alireza Bakhshai**, Queen`s University, Canada
- **Mohammad Tavakoli-Bina**, K.N. Toosi University of Technology, Iran
- **Frede Blaabjerg**, Aalborg University, Denmark
- **Ming Cheng**, Southeast University, China
- **Dr. Jaeho Choi Chungbuk**, National University
- **Dr.Rached Dhaouadi** , American University of Sharja
- **Dr.Ibrahim M. El-Amin**, King Fahd University of Petroleum & Minerals
- **Babak Fahimi**, University of Texas – Arlington, USA
- **Shahrokh Farhangi**, University of Tehran, Iran
- **Ebrahim Farjah**, Shiraz University, Iran
- **Hosein Farzanehfard**, Isfahan University of Technology, Iran
- **Seyed-Hamid Fathi**, Amirkabir University of Technology, Iran
- **Jawad Faiz**, University of Tehran, Iran
- **Seyed-Hosein Hosseini**, University of Tabriz, Iran
- **Dr. Okyay Kaynak**, Bogazici University
- **Mehrdad Kazerani**, University of Waterloo, Canada
- **Ali Keyhani**, Ohio State University, USA
- **Dr. Yan-Fei Liu**, Queen's University

- **Dr. István Nagy**, Budapest University of Technology and Economics
- **JafarMilimonfared**, Amirkabir University of Technology, Iran
- **Mustafa Mohamadian**, TarbiatModares University, Iran
- **Dr. Olorunfemi Ojo**, Tennessee Technological University
- **Dr. Manuel Pérez-Donsión**, Vigo University
- **Ahmad Radan**, K.N. Toosi University of Technology, Iran
- **Dr. Jean-Luc Schanen** G2E Lab-INPG
- **Abbas Shoulaie**, Iran University of Science & Technology, Iran
- **Davoud Arab Khaburi**, Iran University of Science & Technology, Iran
- **Farzad Tahami**, Sharif University of Technology, Iran
- **Hamid A. Toliyat**, Texas A&M University, USA
- **Sadegh Vaez-Zadeh**, University of Tehran, Iran
- **Ali Yazdian**, TarbiatModares University, Iran
- **Mohamad-Reza Zolghadri**, Sharif University of Technology, Iran
- **Dr. Ahmed Zobaa** , School of Engineering and Design, Brunel University

### **Registration Fee**

- PEDSTC 2012 Registration Fee:
  - International Participants:
    - Full Registration: \$280
    - Student Registration: \$160
  - Domestic Participants:
    - Full Registration: \$140
    - Student Registration: \$80
  - 20% Discount for IEEE members



Keynote Speaker: Dr. Istivan Nagy

### **Paper Review Criteria**

- Full manuscripts is reviewed by 3 - 5 reviewers.
- Papers will be reviewed based on:
  - Quality
  - Originality
  - general interest
  - English language
  - Duplication
- Online review forms are available to reviewers to evaluate the papers.
- Papers with conflicting opinions is reviewed by at least two technical committee members for final decision.

### **PEDSTC Statistics**

	<b>PEDSTC 2012</b>
<b>Number of submissions</b>	244



<b>Number of accepted papers</b>	98
<b>Countries of accepted papers</b>	Iran and 16 other countries
<b>Number of participants</b>	150
<b>Countries of participants</b>	Iran and 2 other countries
<b>Submission system</b>	Web Based
<b>Number of reviewers per papers</b>	At least 3
<b>Data base of reviewers</b>	66 reviewers, Iran: 65, California: 1
<b>Number of no-shows</b>	



Exhibition 2012 Conference

PEDSTC 2013 Conference:



Exhibition 2012 Conference

## PEDSTC 2013 Conference:

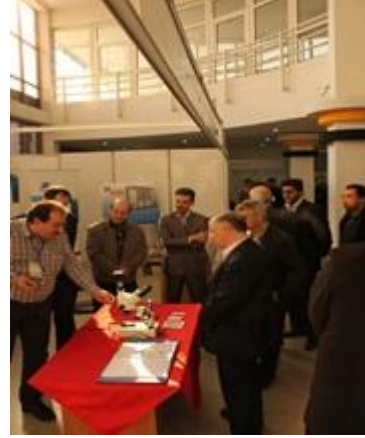


## At a glance

Initial PEDSTC idea was formed by members of power electronics society of Iran (PESI), in early 2009.

• The conference goal is to provide an opportunity for interested researchers and industry sector to convene and exchange ideas in this field for the first time in Iran.

• PEDSTC 2013 was on 13-14 February 2013 in Nirop Research Institute Ministry of Power, Tehran, Iran.



Exhibition 2013 Conference

## PEDSTC 2013 Organizing Committee

Honory Chair	Majid Ghasemi	K.N.Toosi University of Technology
Honory Co-Chair	Homayoun Haeri	Managing Director of Tavanir Co
General Chair	Mohammad Tavakoli Bina	K.N. Toosi University
Technical Chair	Ahmad Radan	K.N. Toosi University
Tutorial Chair	Farzad Tahami	Sharif University of Technology
International Publicity Chair	Shahrokh Farhangi	University of Tehran
Publication Chair	Davoud Arab Khaburi	Iran University of Science &Technology
Industry Chair	Mustafa Alidadi	President of Iranian Atrin Wind Power Plants Co.(NIBA)
Industry Liaison Chair	Mohammad Ardebili	K.N. Toosi University of Technology
Industry Liaison Chair	HamidrezaTayebi	President of JDEVS
Conference Web Chair	Mustafa Mohammadian	TarbiatModares University
Treasury Chair	Abbas HooshmandViky	K.N. Toosi University of Technology
Exhibit Chair	Masoud AliakbarGolkar	K.N. Toosi University of Technology
Exhibit Chair	Seyed Hamid Fathi	Amirkabir University of Technology

## PEDSTC 2013 Technical Program Committee

- **KarimAbbaszadeh**, K.N. Toosi University of Technology, Iran
- **Ali Abedini**, K.N. Toosi University of Technology, Iran
- **Ebrahim Afjei**, ShahidBeheshti University, Iran
- **Saeed Afsharnia**, University of Tehran, Iran
- **Asghar Akbari**, K.N. Toosi University of Technology, Iran

- **Masoud Aliakbar-Golkar**, K.N. Toosi University of Technology, Iran
- **Davoud Arab Khaburi**, Iran University of Science & Technology, Iran
- **Mohammad Ardebili**, K.N. Toosi University of Technology, Iran
- **Greg Asher**, The University of Nottingham, United Kingdom
- **Tooraj Amraee**, K.N. Toosi University of Technology, Iran
- **Alireza Bakhshai**, Queen`s University, Canada
- **Seyed-Mohammad-Taghi Bathaee**, K.N. Toosi University of Technology, Iran
- **Frede Blaabjerg**, Aalborg University, Denmark
- **Shanbao Cheng**, FMC Technologies, California, USA
- **Ming Cheng**, Southeast University, China
- **Rached B.H. Dhaouadi**, American University of Sharjah, UAE
- **Ibrahim M. EI-Amin**, King Fahd University of Petroleum & Minerals, KSA
- **Babak Fahimi**, University of Texas – Arlington, USA
- **Jawad Faiz**, University of Tehran, Iran
- **Shahrokh Farhangi**, University of Tehran, Iran
- **Ebrahim Farjah**, Shiraz University, Iran
- **Hosein Farzanehfard**, Isfahan University of Technology, Iran
- **Seyed-Hamid Fathi**, Amirkabir University of Technology, Iran
- **Gevork B. Gharehpetian**, Amirkabir University of Technology, Iran
- **Abbas Hooshmand-Viky**, K.N. Toosi University of Technology, Iran
- **Seyed-Hosein Hoseini**, University of Tabriz, Iran
- **Alireza Jalilian**, Iran University of Science & Technology, Iran
- **Mohsen Kalantar**, Iran University of Science & Technology, Iran
- **Okyay Kaynak**, Bogazici University, Turkey
- **Mehrdad Kazerani**, University of Waterloo, Canada
- **Ali Keyhani**, Ohio State University, USA
- **Yan-Fei Liu**, Queen`s University, Canada
- **Jafar Milimonfared**, Amirkabir University of Technology, Iran
- **Seyed-Masoud Moghaddas-Tafreshi**, K.N. Toosi University of Technology, Iran
- **Mustafa Mohamadian**, TarbiatModares University, Iran
- **Hosein Mokhtari**, Sharif University of Technology, Iran
- **Istvan Nagy**, Budapest University of Technology, Hungary
- **Olorun femiOjo**, Tennessee Technological University, USA
- **Manuel Perez-Donsion**, University of Vigo, Spain
- **Ahmad Radan**, K.N. Toosi University of Technology, Iran
- **Jean-Luc Schanen**, G2Elab, France
- **Shokrollah Shokri-Kojori**, K.N. Toosi University of Technology, Iran
- **Abbas Shoulaie**, Iran University of Science & Technology, Iran
- **Farzad Tahami**, Sharif University of Technology, Iran
- **Mohammad Tavakoli-Bina**, K.N. Toosi University of Technology, Iran
- **Hamid A. Toliyat**, Texas A&M University, USA
- **SadeghVaez-Zadeh**, University of Tehran, Iran
- **Ali Yazdian**, TarbiatModares University, Iran
- **Mohamad-Reza Zolghadri**, Sharif University of Technology, Iran

## Registration Fee

- PEDSTC 2013 Registration Fee:

- International Participants:

- Full Registration: \$ 280

- Student Registration: \$160

- Domestic Participants:

- Full Registration: \$140

- Student Registration: \$ 80

20% Discount for IEEE members

### Paper Review Criteria:

- Full manuscripts is reviewed by 3 - 5 reviewers.

- Papers will be reviewed based on:

- Quality

- Originality

- general interest

- English language

- Duplication

- Online review forms are available to reviewers to evaluate the papers.

- Papers with conflicting opinions is reviewed by at least two technical committee members for final decision.



Dr-Ing. Peter Magyar



Professor Josep M. Guerrero

## PEDSTC Statistics

	PEDSTC 2013
Number of submissions	310

<b>Number of accepted papers</b>	136
<b>Countries of accepted papers</b>	Iran and 16 other countries
<b>Number of participants</b>	550
<b>Countries of participants</b>	Iran and 5 other countries
<b>Submission system</b>	Web Based
<b>Number of reviewers per papers</b>	At least 3
<b>Data base of reviewers</b>	227 reviewers, Iran: 211, United States: 2, Nottingham: 1, United Kingdom: 1, Taiwan: 1, France: 2, Saudi Arabia: 1, Qatar: 1, China: 1, Hungary: 1, France: 1, Denmark: 1, Canada: 4, Algeria: 1
<b>Number of no-shows</b>	6

## Keynote Speaker

### **Prof. José Rodríguezp** Fellow IEEE



Jose Rodriguez received the Engineer degree in electrical engineering from the Universidad Federico Santa Maria (UTFSM), Valparaiso, Chile, in 1977 and the Dr-Ing. degree in electrical engineering from the University of Erlangen, Erlangen, Germany, in 1985. He has been with the Department of Electronics Engineering, University Federico Santa Maria since 1977, where he is currently full Professor and Rector.

He has co-authored more than 100 IEEE Transactions papers and 200 conference papers. His main research interests include multilevel inverters, new converter topologies, control of power converters, and adjustable-speed drives.

Prof. Rodriguez is Associate Editor of the IEEE TRANSACTIONS ON POWER ELECTRONICS and IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS since 2002. He received the Best Paper Award from the IEEE INDUSTRIAL ELECTRONICS MAGAZINE in 2008, Best Paper Award from the IEEE TRANSACTIONS ON POWER ELECTRONICS in 2010 and the Best Paper Award from the IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS in 2007 and 2011.

Dr. Rodríguez is Fellow of the Chilean Academy of Engineering and Fellow of the IEEE.

## Keynote Speaker

**Prof. K. Gopakumar**  
Fellow IEEE



K. Gopakumar received his B.E. (Electrical Engineering) degree from Indian Institute of Science in 1980. Later on he did his M. Sc. (Engg.) (E.E.) in 1984 and Ph.D. (E.E.) in 1994 both from the Indian Institute of Science respectively. His thesis title for M.Sc. was "A Series Dual Current Source Inverter fed Split-Phase Induction Motor Drive" and thesis title for Ph.D. was "Study on Voltage Source Inverter fed Drives for Induction Motor with Split Phase Windings".

Dr. Gopakumar is currently a Professor at the Department of Electronic systems Engineering( formerly CEDT- Centre for Electronics Design and Technology (CEDT), at Indian Institute of Science (IISc), Bangalore, India. He is also the member of the following professional bodies :- Fellow IEEE Fellow IETE (India) Fellow Indian National academy of Engineers (FNAE) Associate Editor- IEEE Trans. On Industrial Electronics. IETE (India)- B.K Bose award for contributions to the area of power electronics and drives for high power applications Council member DIAT ( Defense Institute of Advanced Technology University),Pune Professional Experience - 27 years; 1984-1987:During this period, Dr. K. Gopakumar was employed by the Indian Space Research Organisation, Satellite Centre, Bangalore, India. The nature of the work was to design and develop satellite on board power supply systems. During this period he was fully involved in the design, development and testing of the SROSS-1 (Stretched Rohini Satellite Series-1) main power supply systems (switched mode power supply systems) for the controls and payloads.

K. Gopakumar is with the Centre for Electronics Design and Technology, Indian Institute of Science, Bangalore 560 012, India. Research works are related to three related areas in the broad topic of Power electronic converters and drives: Multiphase induction motor drives, multilevel inverter topologies for induction motor ( IM) drives, and space vector PWM control of inverter fed IM drives.