

# International Journal of Performability Engineering

## Co-Editors-in-Chief

**Dianxiang Xu**, Department of Computer Science, Boise State University, U.S.A.  
**V. N. A. Naikan**, Reliability Engineering Centre, IIT Kharagpur, India

## Founder Editor-in-Chief

**Krishna B. Misra**, RAMS Consultants, Jaipur, India

## Assistant Editors-in-Chief

**Liudong Xing**, University of Massachusetts, Dartmouth, U.S.A.  
**Suprasad V. Amari**, Relyence Corporation, Greensburg, U.S.A.  
**S. K. Chaturvedi**, Reliability Engineering Centre, IIT Kharagpur, India

## Editorial Advisors

**John D. Andrews**, University of Nottingham, U. K.  
**William E. Vesely**, NASA Headquarters, U.S.A.

## Regional Editors

### THE AMERICAS

**Peter Sandborn**  
University of Maryland  
U.S.A

### EUROPE

**Terje Aven**  
University of Stavanger,  
Norway

### ASIA PACIFIC

**D. N. P. Murthy**  
University of Queensland,  
Australia

### SOUTH ASIA

**N. K. Goyal**  
REC, IIT Kharagpur,  
India

## Editorial Board

### *Group 1: Product Design, Quality, Manufacturing Systems & Management and Human Factors*

**Renkuan Guo**, South Africa  
**Kailash C. Kapur**, U. S. A.  
**Kazimierz Kosmowski**, Poland  
**H. C. Moon**, Korea  
**Sudhendu Rai**, U. S. A.  
**S. M. Rizwan**, Oman  
**Gordon J. Savage**, Canada  
**Joseph Sharit**, U.S.A.  
**Gurunatha Thimmaiah**, U. S. A.  
**John P. Ulhøi**, Denmark  
**Masataka Yoshimura**, Japan

### *Group 2: Reliability Modelling, Analysis, Design, Testing and Demonstration*

**Indra Gunwan**, Australia  
**Lisa M. Jackson**, U.K.  
**Karama Kanoun**, France  
**John M. Kontoleon**, Greece  
**Nikolios Limnios**, France  
**Yi-Kuei Lin**, Taiwan  
**Anatoly Lisnianski**, Israel  
**Hoang Pham**, U.S.A.  
**Suresh Rai**, U.S.A.  
**Michael T. Todinov**, U.K.

### *Group 3: System Analysis and Computational Intelligence (Fuzzy Sets, Neural Nets, Gen. Alg., etc.)*

**Yuanshun Dai**, U.S.A.  
**Jean-Francois Dupuy**, France  
**Yuan Fuqing**, Norway  
**Zhibin Jiang**, China  
**Gregory Levitin**, Israel  
**Mustapha Nourefath**, Canada  
**Sieteng Soh**, Australia  
**K. S. Trivedi**, U.S.A.  
**Wenbing Zhao**, U.S.A.  
**Enrico Zio**, Italy  
**Ming J. Zuo**, Canada

### *Group 4: System Support, Supportability, Tribology, Maintenance & Maintainability*

**Olov Candell**, Sweden  
**Gopi Chattopadhyay**, Australia  
**Pierre Dersin**, France  
**B. S. Dhillon**, Canada  
**Andrew K. S. Jardine**, Canada  
**Renyan Jiang**, China  
**Bhupesh Kumar Lad**, India  
**Viliam Makis**, Canada  
**Toshio Nakagawa**, Japan  
**Aditya Parida**, Sweden  
**Preeti Wanti Srivastava**, India

### *Group 5: System Safety & Risk Assessment, Management and Governance*

**Alexander V. Bochkov**, Russia  
**Enrique López Droguett**, Brazil  
**Seth Guikema**, U.S.A.  
**Takehisa Kohda**, Japan  
**Hiromitsu Kumamoto**, Japan  
**M. Modarres**, U.S.A.  
**Marvin Rausand**, Norway  
**Bernhard Reer**, Switzerland  
**Ortwin Renn**, Germany  
**K. Suzuki**, Japan  
**Piero Baraldi**, Italy

### *Group 6: Sustainability (Design for Environment, Ecology and Env. Man. & Reg.)*

**Daoud Ait-Kadi**, Canada  
**Leo Alting**, Denmark  
**Beng Wah Ang**, Singapore  
**Giancarlo Barbiroli**, Italy  
**Claver Diallo**, Canada  
**Toni Gladding**, U.K.  
**Thornton (Ted) Gogoli**, U.S.A.  
**Karolos J. Kontoleon**, Greece  
**Francesco Di Maio**, Italy  
**Hans Schnitzer**, Austria  
**Walter R. Stahel**, Switzerland

## Associate Editors

**Michael Grottke**, Germany

**Mohammed Asjad**, India

**R. Sundaramurthi**, India

**Website Developer & Ecommerce Adviser: Raymond Chinoy**, Tampa, U.S.A.