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IPEMC '94

THE FIRST INTERNATIONAL
POWER ELECTRONICS AND
MOTION CONTROL CONFERENCE

Volume 2

June 27 - 30, 1994, Beijing, China

Sponsored by:

China Electrotechnical Society

INTERNATIONAL ACADEMIC PUBLISHERS

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Wang Ziqiang (王自强) and Liu Xuezhi (刘学智)

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IPEMC '94 PROGRAM SUMMARY

Monday, June 27

8:30am 8:50am	Opening Ceremony					
8:50am 12:00pm	Plenary Session 1					
1:30pm 5:00pm	Session 1A Devices, Components and Materials 1	Session 2A Power Supply 1	Session 3A AC / DC Drives	Session 3B AC / DC Drives and Control Techniques	Session 4A Soft-Switching Techniques	Session 5A Excitation Systems & Reactive Power Compensation
5:00pm 6:00pm	Welcoming Reception					

Tuesday, June 28

8:30am 12:00pm	Plenary Session 2					
1:30pm 5:30pm	Session 1B Devices Components and Materials 2	Session 2B Power Supply 2	Session 3C AC / DC Motor Control Techniques and Algorithms	Session 3D Microprocessor & Digital Architecture for Drives Control Applications	Session 4B Inverter & Converter 1	Session 5B Harmonic Compensation Modeling & Simulation

Wednesday, June 29

8:30am 12:00pm	Session 1C Devices Modelling, Simulation & Application	Session 1D Devices Application	Session 3E Servo Systems & Others	Session 3F Modelling, Simulation and CAD of Drives	Session 4C Modelling Simulation of Converters	Session 4D Inverter & Converter 2
1:30pm 5:00pm	Visiting Exhibition (1st International Exhibition on Power Electronics & Electrical Drives)					
6:30pm 9:00pm	Banquet					

Thursday, June 30

8:30am 5:00pm	Great Wall & Ming Tombs Tour
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* Coffee break time is about 10:15 — 10:30 am and 3:30 — 3:45 pm every day

Beijing Science Symposium Hall, 3 Baishiqiao Road, Beijing, China

FOREWORD

This Proceedings contains 193 papers accepted by the First International Power Electronics and Motion Control Conference (IPEMC'94). These papers are submitted by authors from 18 countries and regions. The Conference is jointly sponsored by China Electrotechnical Society (CES) and National Natural Science Foundation of China and co-organized by Zhejiang University, CES Power Electronics Society, CES Electrical Control System & Equipment Institution, Shanghai University of Technology and Beijing Power Electronics R&D Center. IEEE Beijing Section and IEEE Power Electronics Society also offered their successful cooperation to this Conference. The Conference will be held at Beijing Science Symposium Hall, Beijing, China from June 27 to June 30, 1994. New progress in the field of power electronics will be found in this Proceedings.

These papers have been divided into five sessions, covering various topics on Power Semiconductor Devices, Components and Materials, their Modelling, Simulation & Application; Electronic Power Supply; AC/DC Motor Control Techniques, Servo Systems, Microprocessor & Digital Architecture for Drives Control Applications; Soft-Switching Techniques, Inverter & Converter; Power Electronics used in Excitation Systems for Generator, Reactive Power Compensation and Harmonic Compensation, etc. Besides that, there are 10 invited papers to be presented during the plenary sessions. I hope that this Conference will act as an international arena for participants to exchange information and discuss new ideas.

Please let me take this opportunity to express my personal gratitude to all my colleagues who have contributed a lot to the publication of this Proceedings.



Jingde Gao

Professor, Tsinghua University

IPEMC'94 Conference Chairman

Vice President of China Electrotechnical Society

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