



Guideline to “Institute of Control, Robotics, and Systems”

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The Purpose of Establishment

Fostered by mechatronics technology and the technology of the modern 3Cs (computer, communication and control), machines, processes and systems have become more advanced through high levels of automation, intelligence, reliability, precision, and performance. Control, Robotics, and Systems are central to the advancement of modern engineering, and have evolved to the point that they require strong cooperation among industry, academia and laboratories as well as cross-fertilization among many closely related disciplines. To serve these needs, the Institute of Control, Robotics, and Systems (ICROS) was founded by the concerted cooperation and efforts of electrical, electronics, mechanical, aerospace, and chemical engineers. Today, ICROS is diligently leading the way at advancing these technologies as well as implementing them in various practical engineering problems.

History of the Institute

- History

- Jul. 20. 1994. Initial draft framed at the Institutes promoter meeting
- Sep. 10. 1994. Inaugural Meeting (conference room, 2nd Floor, KFSB bldg., Yoido, Seoul)
- Dec. 10. 1994. Received corporate grant from the Ministry of Commerce, Industry and Energy (Grant number 94-15)
- Dec. 31. 1994. Corporate registration at Seodaemun Registry Office of Seoul District Court (114521-0004449)
- Jan. 13. 1995. Received certificate of inscription from Seodaemun Tax Office (Registration number 110-82-06855)
- Apr. 10. 1997. Received certificate of inherent number from Yeoksam Tax Office (Inherent number 220-82-01782)
- May. 3. 2004. Moved into Bucheon, Gyeonggi-do
- Jun. 15. 2007. Changed the name ICASE (The Institute of Control, Automation and Systems Engineering) to ICROS (Institute of Control, Robotics, and Systems)

- List of Former Chairmen (Advisory Committee)

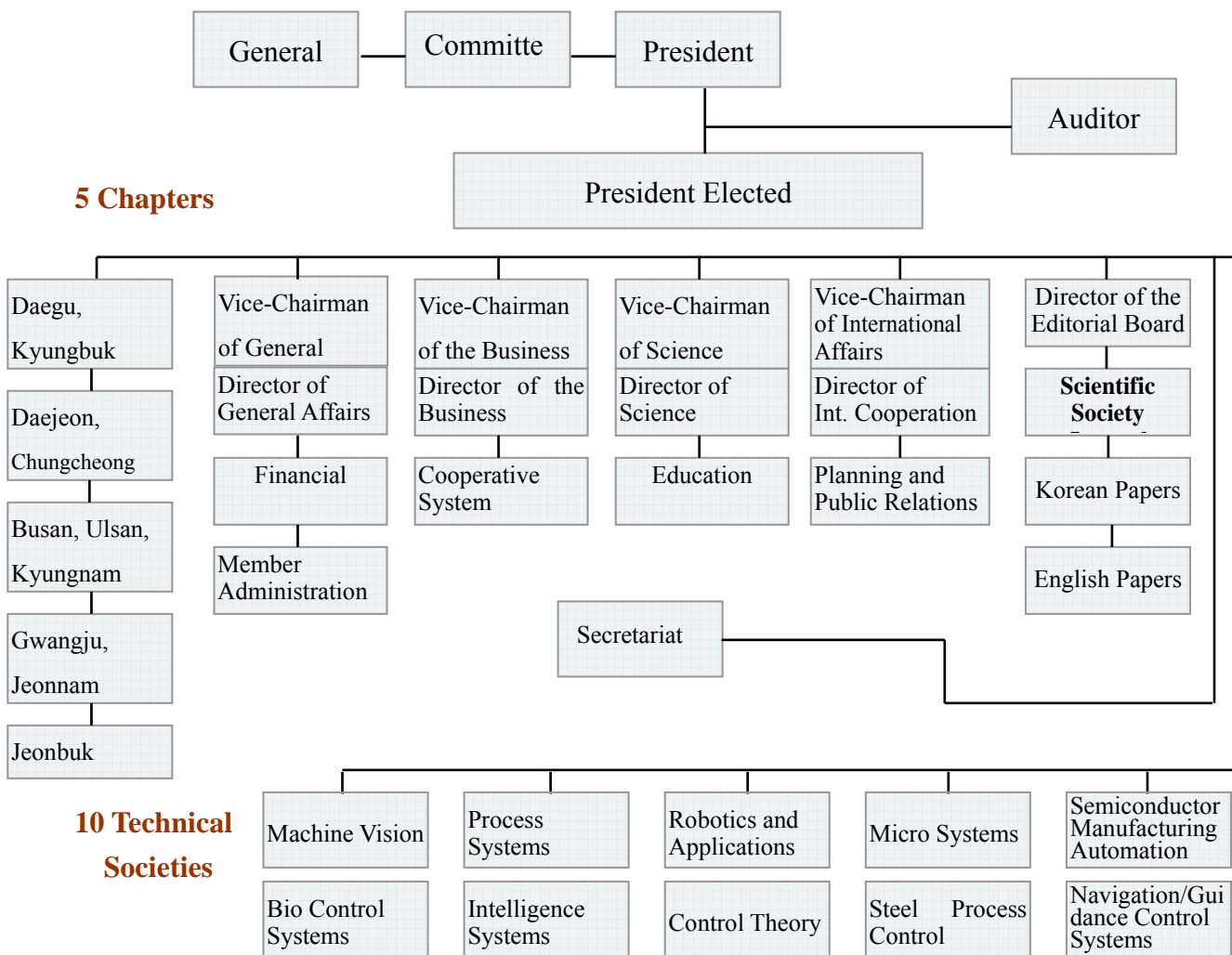
- The 1st Chairman - Kwangbang Woo (Professor, Yonsei University)
Sep. 10. 1994 – Dec. 31. 1995
- The 2nd Chairman - Soonhoon Bae (Chairman, Daewoo Electronics Co., Ltd)
Jan. 1. 1996 – Dec. 31. 1996
- The 3rd Chairman - Hyungku Rhee (Professor, Seoul National University)
Jan. 1. 1997 – Dec. 31. 1997
- The 4th Chairman - Heechong Lee (Vice-Chairman, LG Industrial System Co., Ltd)
Jan. 1. 1998 – Dec. 31. 1998
- The 5th Chairman - Wookhyun Kwon (Professor, Seoul National University)
Jan. 1. 1999 – Dec. 31. 1999
- The 6th Chairman - Unsuh Park (Vice-Chairman, LG International Corp.)
Jan. 1. 2000 – Dec. 31. 2000
- The 7th Chairman - Hyongsuck Cho (Professor, KAIST)
Jan. 1. 2001 – Dec. 31. 2001
- The 8th Chairman - Kwan Rim (Chairman, Samsung Advanced Institute of Technology)
Jan. 1. 2002 – Dec. 31. 2002
- The 9th Chairman - Youngil Youm (Professor, Pohang Univ. of Science and Technology)
Jan. 1. 2003 – Dec. 31. 2003
- The 10th Chairman – Keh Sik Min (Vice-Chairman, Hyundai Heavy Industries Co. Ltd)
Jan. 1. 2004 – Dec. 31. 2004
- The 11th Chairman – Ju Jang Lee (Professor, KAIST)
Jan. 1. 2005 – Dec. 31. 2005
- The 12th Chairman – Chongkug Park (Professor, Kyunghee University)
Jan. 1. 2006 – Dec.31. 2006
- The 13th Chairman – Doug Young Joo (Vice-Chairman, Korea Semiconductor Industry Association)
Jan. 1. 2007 – Dec.31. 2007
- The 14th Chairman – Sung Kwun Kim (Professor, Korea Polytechnic University)
Jan. 1. 2008 – Dec.31. 2008
- The 15th Chairman – Jin Seog Choi (Vice-President, Hynix Semiconductor Inc.)
Jan. 1. 2009 – Dec.31. 2009

International Cooperation

- **IFAC NMO** [The Korea representative of IFAC] : International Federation of Automation Control
- **IFR Affiliate Member**: International Federation of Robotics
- **The exchange of MOU with IEEE R&A** : IEEE Robotics and Automation Society
- **The exchange of MOU with ISA** : The Instrumentation, Systems, and Automation Society
- **The exchange of MOU with SICE** : Society of Instrument and Control Engineers
- **The exchange of MOU with CAA** : Chinese Association of Automation
- **The exchange of MOU with CAAI** : Chinese Association for Artificial Intelligence
- **The exchange of MOU with CACS** : Chinese Automatic Control Society

Organization Chart

5 Chapters & 10 Technical Societies



Status of the Institute Members

Year \ Classification	2006	2007	2008
Regular Member	2,442	2,537	2,679
Student Member	2,079	2,252	2,406
Corporation Member	123	121	134
Honor-level Member	35	31	35
Total	4,679	4,941	5,254

1. Honor-level Corporation Members

- Complementary advertisement for honor-level corporation members (scientific Society Journal: published bimonthly)
- Complementary advertisement in the periodic scientific journal published by ICROS (more than once a year)
- Online advertisement for corporations on the ICROS internet homepage
- Catalogue service by linking to the website and advertisement for the honor-level corporation members displayed on the ICROS homepage (<http://icros.org>)
- Complementary registration to scientific functions hosted by ICROS
- Complementary registration to scientific functions hosted by ICROS for the researchers employed by honor-level corporation members
- Possible promotion of the latest news from honor-level corporation members through the ICROS scientific journal
- Advertisement of the honor-level corporation members' news such as product development, research results, and personnel transfer in the ICROS scientific journal
- 2 complementary copies of various periodicals
- Scientific journals (quarterly), Korean papers (monthly), English papers (quarterly), and other publications for scientific functions
- Recommendation of professional researchers at the request of corporation members

2. Corporation Members

- Advertisement of member corporations on the ICROS internet homepage
- Homepage link and advertisement of corporation members on the ICROS (<http://icros.org>) homepage
- 2 complementary copies of various periodicals
- Scientific journals (quarterly), Korean papers (monthly), English papers (quarterly), and other publications for scientific functions

3. General Members

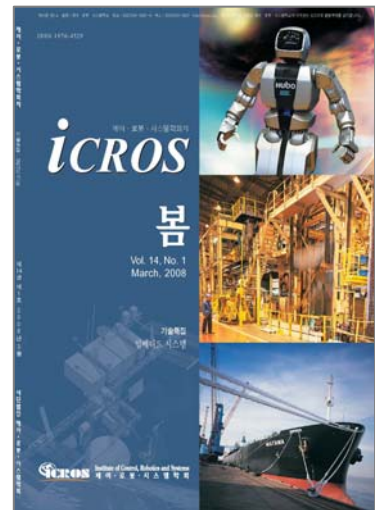
- Offer original theses text (scientific journals, Korean & English papers, scientific conference papers)
- Permanent preservation of each member's thesis, scientific journals and theses used to contribute to scientific functions on the web
- Automatic qualification for contribution in scientific journals, papers and scientific conference papers
- Swift search for the examination process of each member's contributed thesis on the web
- Access to information (member search, scientific functions and renowned foreign sites) provided by ICROS on the web
- Access to information regarding scientific conferences hosted by ICROS and discount benefits offered upon participation
- Foreign advertisement of individual research results with DB
- Complementary use of e-mail system for employment postings
- Complementary information on job offers by corporation members

Objectives

- **Scientific Journal:** To be covered as a Science Citation Index journal - International Journal of Control, Automation and Systems (IJCAS is indexed in SCIE at present)
- **Scale:** To rank high among domestic institutes
- **Informatization:** To become a 24-hour information provision and operating system via the internet
- **Internationalization:** To advance international cooperation through mutual interchange with relevant international organizations (SICE (Japan), IEEE R&A, CAA, etc.)
- **Social Aspect:** To provide technology education to industrial organizations and R&D support through the Cooperative System
- **Education:** To propagate the relevant education of Intelligent Robot, Home-Network, Mechatronics, etc

1. Publication Business

- Quarterly publication of the scientific journal concerning the areas of Control, Automation and Systems (publishing approximately 3,800 copies at a time)
- Monthly publication of papers related to Control, Automation and Systems (publishing approximately 3,500 copies at a time)
- **Bimonthly publication of International Journal of Control, Automation, and Systems (IJCAS) (publishing approximately 3,500 copies at a time):** The International Journal of Control, Automation, and Systems (IJCAS) is a bimonthly periodical that has been in publication since 2003. It is a joint effort of the Institute of Control, Automation, and Systems Engineers (ICROS), and the Korean Institute of Electrical Engineers (KIEE). The purpose of the journal is to establish a high quality archival periodical presenting state of the art, recent advances and practical applications of control, automation, and systems engineering. The IJCAS is indexed/abstracted in Science Citation Index Expanded (SCIE), CompuMath Citation Index, Current Contents/Engineering, Computing & Technology, Compendex (Engineering Index), Korea Research Foundation Index.
- Publication of educational and professional books related to Intelligent Robot, Home-Network, Mechatronics, etc



2. Internationalization Business

- Expansion of established cooperative alliance with IEEE R&A, ISA, SICE, CAA, and CAAI
- Search for cooperative alliances with relevant international corporations beyond our borders, including Germany and Finland
- Increase in foreign membership and internationalization of English written papers (International Journal of Control, Automation, and Systems(IJCAS))

3. Scientific Supervision and Support

- ICCAS-SICE 2009

Aug. 18~ 21. 2009. Fukuoka International Congress Center, Fukuoka, Japan (<http://www.sice.or.jp/ICCAS-SICE2009/>)

- ICCAS 2008

Oct. 14~ 17. 2008. Seoul, COEX, Korea (<http://www.iccas.org>)

- ICCAS 2007

Oct. 17~ 20. 2007. Seoul, COEX, Korea (<http://www.iccas.org>)

- SICE-ICCAS 2006 (SICE-ICROS International Joint Conference)

Oct. 18 ~ 21. 2006. BEXCO, Busan, Korea

- ICCAS 2005 (International Conference on Control, Automation and Systems)

Jun. 2 ~ 5. 2005. KINTEX, Gyeonggi-do, Korea

- ICCAS 2004

Aug. 25 ~ 27, 2004. The Shangri-La Hotel, Bangkok, Thailand

- ICCAS 2003

Oct. 22 ~ 25, 2003. TEMP Hotel, Gyeongju, Korea

- ICCAS 2002

Oct. 16 ~ 19, 2002. Muju Resort, Jeonbuk, Korea

- ICCAS 2001

Oct. 17 ~ 21, 2001. Jeju University, Jeju, Korea

- Scientific functions of chapters held more than 5 times
- Held more than once in each chapter of Daegu (Kyungbuk), Daejeon (Chungcheong), Busan & Ulsan (Kyungnam), Gwangju (Jeonnam), and Jeonbuk
- Held technical societies more than 10 times
- Machine Vision, Process systems, Robotics and applications, Micro Systems, Semiconductor
- Manufacturing Automation, Bio Control Systems, Intelligence System, Control Theory, steel Process Control, Navigation/Guidance Control Systems
- Supported international scientific conferences
 - IFAC World Congress 2008 (2008. 7. 6-11, COEX, Seoul, Korea)
 - IEEE INDIN2008 (2008. 7. 13-16, Daejeon Convention Center, Daejeon, Korea)
 - The 27th Chinese Control Conference(CCC) (2008. 7. 16-18, National Chung Hsing University, Taichung, Taiwan)
 - SICE 2008 (2008. 8. 20-22, Chofu, Tokyo, Japan)
 - ISR 2008 (2008. 10. 15-17. COEX, Seoul, Korea)
 - IEEE ISIE 2009 (2009. 7. 5-8, Seoul Olympic Parktel, Seoul, Korea)
 - ICIC 2009 (2009. 9. 16-19, Ulsan, Korea)
 - IEEE ISAM 2009 (2009. 11. 18-20, AICT, Suwon, Korea)
 - CACS 2009 (2009. 11. 27-29, Taipei, Taiwan)
 - ICMIT 2009 (2009. 12. 2-5, Kwangju, Korea)

4. Institute Information

- Service contents of homepage URL: <http://icros.org>
- Search service for the original text of more than 8,000 volumes of theses.
- On-line examination of theses
- Offer information on scholastic events related to Pro Control·Automation·System Engineering
- Offer information on international scientific conferences related to Control·Automation·System Engineering
- Offer human resource related information (employment postings) related to Control·Automation·System Engineering
- Catalogue service and homepage link for honor-level corporation members