General Information
about
The Department of Computer Science
and Engineering

Mounir Hamdi
Department Head and Chair Professor
Hong Kong University of Science and Technology

- Established in 1991 by the Hong Kong Government as a Research-Intensive American-style University
  - It has four Schools (ALL BSc, MSc, MPhil, PhD)
    - School of Business
    - School of Engineering
    - School of Science
    - School of Humanities and Social Science
    - Institute of Advanced Studies
    - 9 Research Institutes
    - 43 Research Centers
  - It has around 500 faculty members, 100% with PhDs
  - It has around 6000 undergraduate students
  - It has around 4000 graduate students
HKUST Faculty

- 100% with doctorate degree
- 80% from the following universities:

  - Caltech
  - Stanford
  - Cambridge
  - Carnegie-Mellon
  - Chicago
  - UC Berkeley
  - Columbia
  - Cornell
  - Washington
  - Harvard
  - Illinois
  - Yale

  - Imperial
  - Toronto
  - London
  - Michigan
  - MIT
  - UCLA
  - Northwestern
  - Oxford
  - Wisconsin
  - Princeton
  - Purdue
  - UBC
Research at HKUST

The Five O’s

(University Strategic Plan 2005-2020)

- NanO-Science & Technology
- BiOlogial Science & Technology
- Electronics, Wireless and Information Technology
- EnvirOnmental and Sustainable Development
- Management Education and Research (CEO)

Engineering participates in all Five O’s
The School of Engineering

- School of Engineering (SENG)
  - Electronic and Computer Engineering (ECE)
  - Computer Science and Engineering (CSE)
  - Chemical and Biomolecular Engineering (CBME)
  - Civil and Environmental Engineering (CIVL)
  - Industrial Eng. and Logistics Management (IELM)
  - Mechanical Engineering (MECH)

Inter-disciplinary Research Programs
- Bio-Engineering
- Environmental Engineering
- Nano Technology

Minor Programs
- Bio-Engineering
- Information Technology
- Technology Management
2010 Engineering World Ranking

No. 20, World's Top Universities in Engineering and IT
Times Higher Education Supplement

No. 2, Top Asian Universities
Asian University Rankings by QS World University Rankings in Technology

No. 26, World's Top Universities in Technology
QS World University Rankings in Technology

No. 36, World's Top 100 Universities in Engineering/Technology and Computer Sciences
Shanghai Jiao Tong University Supplement
The Department of Computer Science and Engineering
# Faculty and Teaching Staff

<table>
<thead>
<tr>
<th>Category</th>
<th>Sub-category</th>
<th>Overall Size</th>
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<tr>
<td>Tenure-track Faculty</td>
<td>3 Chair Professors</td>
<td>41</td>
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<td>20 professors</td>
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<td>12 Associate Professors</td>
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<td>8 Assistant Professors</td>
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<td>Visiting Faculty</td>
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<td>Junior Teaching Staff</td>
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<td>3 Communication Tutors</td>
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<td>18</td>
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### Students (Around 900)

<table>
<thead>
<tr>
<th>Category</th>
<th>Sub-category</th>
<th>Overall size</th>
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<tbody>
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<td><strong>Undergraduate Programs</strong></td>
<td>BEng in Computer Science</td>
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<tr>
<td></td>
<td>BEng in Computer Science</td>
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<td>(Information Engineering)</td>
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<td>BSc in Computer Science</td>
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<tr>
<td><strong>Multi-disciplinary Undergraduate Programs</strong></td>
<td>BEng in Computer Engineering (Shared with the Department of Electronic and Computer Engineering)</td>
<td>285</td>
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<tr>
<td></td>
<td>BSc in Risk Management and Business Intelligence (Shared with the Department of Mathematics and the Department of Information Systems)</td>
<td>30</td>
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<tr>
<td><strong>Postgraduate Research Programs</strong></td>
<td>PhD in Computer Science and Engineering</td>
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<td></td>
<td>MPhil in Computer Science and Engineering</td>
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<td><strong>Postgraduate taught Programs</strong></td>
<td>MSc in Information Technology</td>
<td>Full-time: 55</td>
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<tr>
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<td>Part-time: 98</td>
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</tbody>
</table>
Distribution of CSE Undergraduate Students

(where do they come from)

- Hong Kong: 80%
- PRC: 10%
- Int'l: 10%
Student Employment

COMP 2009
- Further Studies, 9.0%
- Employment, 91.0%

COMP 2010
- Further Studies, 10.0%
- Employment, 90.0%
334 Curriculum Redesign

For a Diverse Field &
For Diverse Careers
Exchange Program

Objectives:

- To broaden horizon
- To become more independent
- To be exposed to other cultures
- To gain an advantage in future career development
Undergraduate Exchange Programs
Exchange Programs

• USA
  - Arizona State University
  - **Cornell University**
    - Drexel University
    - George Washington University
    - Georgia Institute of Technology
    - Lehigh University
    - Missouri University of Science & Technology
    - Northwestern University
  - Purdue University
  - Rice University
  - Texas A & M University
  - The Cooper Union
  - Tulane University
  - University of California
    - Berkeley
    - Davis
    - Irvine
    - UCLA
    - Riverside
    - San Diego
    - Santa Barbara
    - Santa Cruz
  - University of Illinois, Urbana-Champaign
  - University of Massachusetts, Amherst
  - University of Michigan
  - University of Minnesota
  - University of Pennsylvania
  - University of Southern California
  - University of Washington
Exchange Programs

• **Britain**
  – University College London
  – University of Aberdeen
  – University of Bristol
  – University of Southampton
  – University of Warwick
• **Canada**
  – Simon Fraser University
  – University of Toronto
  – University of Waterloo
• **Denmark**
  – Technical University of Denmark
• **France**
  – Grenoble Institute of Technology
• **Germany**
  – Technical University of Munich
  – Dortmund University of Technology
• **Japan**
  – Kyoto University
  – Sophia University
• **Malaysia**
  – Universiti Putra Malaysia
• **New Zealand**
  – University of Auckland
• **Singapore**
  – Nanyang Technological University
  – National University of Singapore
• **South Korea**
  – Korea Advanced Institute of Science & Technology (KAIST)
  – Seoul National University
  – Sungkyunkwan University
• **Spain**
  – Universidad Politecnica de Valencia
• **Sweden**
  – Chalmers University of Technology
  – Royal Institute of Technology
• **Switzerland**
  – ETH Zurich
• **Taiwan**
  – National Central University
  – National Taiwan University
  – National Tsing Hua University
• **Thailand**
  – Chulalongkorn University
Exchange Programs

• China
  – Fudan University 復旦大學
  – Harbin Institute of Technology 哈爾濱工業大學
  – Nanjing University 南京大學
  – Peking University 北京大學
  – Shanghai Jiao Tong University 上海交通大學
  – Sun Yat-sen University 中山大學
  – Tsinghua University 清華大學
  – University of Science and Technology of China 中國科學技術大學
  – Xi’an Jiaotong University 西安交通大學
  – Zhejiang University 浙江大學
UG Student Exchange

Growth in Outbound Exchange Student Numbers

# Figures in brackets are actual numbers of students going out on exchange during that year.

% of School UG enrolment

2005/06 | 2006/07 | 2007/08 | 2008/09 | 2009/10
---|---|---|---|---
7% | 7% | 9% | 21% | 27%
(49) | (52) | (67) | (158) | (212)

50% Goal
Postgraduate Students
## Where Do our PG Students Come from?

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<thead>
<tr>
<th>Universities</th>
<th>PhD</th>
<th>MPhil</th>
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<td>HKUST</td>
<td>12</td>
<td>24</td>
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<tr>
<td>Tsinghua</td>
<td>25</td>
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<tr>
<td>Peking U</td>
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<tr>
<td>Fudan U</td>
<td>6</td>
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<tr>
<td>Shanghai Jiaotong U</td>
<td>4</td>
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<tr>
<td>Zhejiang U</td>
<td>7</td>
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<tr>
<td>Nanjing U</td>
<td>9</td>
<td>1</td>
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<tr>
<td>Xi'an Jiaotong U</td>
<td>6</td>
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<tr>
<td>Sun Yat Sen U (Zhongshan U)</td>
<td>8</td>
<td>1</td>
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<tr>
<td>USTC</td>
<td>13</td>
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<td>Beihang U</td>
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<td>South China U of Technology</td>
<td>5</td>
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<tr>
<td><strong>Other Universities in China</strong></td>
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<td>3</td>
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<tr>
<td><strong>Other Universities in Hong Kong</strong></td>
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<tr>
<td><strong>Other International Universities</strong></td>
<td>9</td>
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<td><strong>Total:</strong></td>
<td>140</td>
<td>34</td>
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</table>
Distribution of RPG Students (Degree & where do they come from)

- PhD: 80%
- MPhil: 20%
- PRC: 72%
- Hong Kong: 19%
- International: 9%
Accomplishments: PG Students

- All our PhD students are being hired by:
  - Universities all over the world – many of them are senior now
  - Companies of various sectors (technology, banking, etc.)
    - National Univ of Singapore
    - Nanyang Technological Univ
    - Hong Kong Univ
    - KAUST
    - Hong Kong Baptist Univ.
    - Chinese Univ of Hong Kong
    - Simon Fraser Univ. Canada
    - Microsoft, Asia, and USA
    - Google, Asia and USA
    - The University of New South Wales, Australia
    - Colorado State University, USA
    - University of Bonn, Germany

- [http://www.cse.ust.hk/pg/ourgraduates/](http://www.cse.ust.hk/pg/ourgraduates/)
Faculty Accomplishments

- Teaching
- Research
  - Publications
  - Citations
  - Grants
- Professional Service
  - Editorial Board
  - Conference Chairmanships
CSE Teaching Quality

• **2 University-wide Teaching Awards**
  - Given to just one Professor per year

• **6 top-10 Lecturers Awards (voting by students)**
  - Given to 10 Professors per year

• **Many Distinguished Engineering Teaching Awards**

• **Many Teaching Innovation Awards**
Faculty Research
Standing in the World
<table>
<thead>
<tr>
<th>Faculty Member</th>
<th>Artificial Intelligence</th>
<th>Data, Knowledge and Info. Mgt</th>
<th>Net &amp; Computer Systems</th>
<th>Software Technologies</th>
<th>Theo. Computer Science</th>
<th>Vision and Graphics</th>
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## Faculty Research Citations (up to May 2010)

<table>
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<tr>
<th>Research Area</th>
<th>Number of citations</th>
<th>Average citation per CSE Faculty</th>
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<tbody>
<tr>
<td>Artificial Intelligence</td>
<td>12700</td>
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<td>Data, Knowledge and Information Management</td>
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<tr>
<td>Networking and Computer Systems</td>
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<td>Theoretical Computer Science</td>
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<tr>
<td>Vision and Graphics</td>
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Research Acknowledgement

- 5 IEEE Fellows
- 2 Highly cited researchers
- Numerous “Best paper awards” in prestigious conferences and Journals
- (MIT Technology Review) world’s top young innovator award, 2004
- Founding Editor-in-Chief: ACM Transactions on Intelligent Systems and Technology (TIST)
- Within the past 3 years: Our faculty are editors in 54 International Journals
- Within the past 3 years: Our faculty Chaired 65 International Conferences and Workshops
Academic Excellence: Number of Publications in the Past 5 Years

- IEEE Transactions on Knowledge and Data Engineering
  (HKUST, IBM, NUS, UIUC, Purdue)
  - Ranked #1

- IEEE Transactions on Parallel and Distributed Systems
  (HKUST, USC, UTA, GTech, Purdue)
  - Ranked #1

- IEEE Journal on Selected Areas in Communications
  (MIT, HKUST, UIUC, Waterloo, Stanford)
  - Ranked #2

- ACM Transactions on Sensor Networks
  (NCSU, USC, MIT, HKUST, Simon Fraser)
  - Ranked #4

- ACM Transactions on Database Systems
  (Maryland, IBM, UIUC, HKUST, Microsoft)
  - Ranked #4
Academic Excellence: Number of Publications in the Past 5 Years

- Journal of the Audio Engineering Society
  (Helsinki, Philips Res Lab, Nokia, HKUST, Cambridge)
  - Ranked #4

- Information Systems
  (CityU, Roma, Eindhoven U, Purdue, HKUST)
  - Ranked #5

- IEEE Transactions on Multimedia Systems
  (Microsoft, Res Lab, CUHK, UIUC, ..., HKUST)
  - Ranked #8

- IEEE Network
  (UTA, UC-Davis, UCL, Columbia, ..., HKUST)
  - Ranked #10

- IEEE Transactions on PAMI
  (Maryland, CMU, UIUC, Siemens, ..., HKUST)
  - Ranked #10
Conference Publications

- **Top AI Conference Papers**
  - 2007: AAAI/IJCAI 13, ICML 5, SIGIR 3, ICDM 1
  - 2008: AAAI 10, ICML 4, SIGIR 5, ICDM 2, KR 3
  - 2009: IJCAI 8, ICML 3, SIGIR 1

- **Top DB Conference Papers**
  - 2007: SIGMOD/PODS 1, ICDE 2, VLDB 4
  - 2008: SIGMOD/PODS 4, ICDE 4, VLDB 4
  - 2009: SIGMOD/PODS 8, ICDE 4 (No VLDB decisions now)

- **Top Networking/Systems Conference Papers**
  - 2007: MOBICOM 1, INFOCOM 6, ICDCS 2, MobiHoc 0, PerCom 3
  - 2008: MOBICOM 1, INFOCOM 7, ICDCS 4, MobiHoc 3, PerCom 1
  - 2009: INFOCOM 14, ICDCS 1, MobiHoc 3, PerCom 2 (No MobiCom decisions now)
Conference Publications

• **Top Software Technology Conference Papers:**
  – 2007: FSE 3, ICSE 2, RTSS 2
  – 2008: FSE 1, RTSS 5
  – 2009: ICSE 2 (No RTSS decisions now)

• **Top Theory Conference Papers:**
  – 2007: SODA 3, SOCG 1
  – 2008: SODA 2
  – 2009: SODA 3

• **Top Vision/Graphics Conference Papers**
  – 2007: CVPR 3, ICCV 5, SIGGRAPH 6
  – 2008: CVPR 7, ECCV 3, SIGGRAPH/SIGGRAPH Asia 10
  – 2009: CVPR 3, SIGGRAPH 1 (No ICCV decisions now)
We have a strong Research Funding

- High success rate in competitive funding in Hong Kong (GRF), China, and USA
- Numerous Industry/Research Projects
  - Microsoft, Huawei, Boeing, NEC, Alcatel, Nokia, Google, ZTE, STM, ITF, ...
Ranking Provided by the Academic Ranking of World Universities (ARWU), (2010)

- Overall Ranking: 26 in the World
- Asia Ranking: 1
- Papers published in Top 20% of CS Journals: 9 in the World

http://www.arwu.org/SubjectCS2010.jsp
### Academic Ranking of World Universities

#### Criteria
- Alumni
- Awards
- Citations
- Publications in top venues

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Thank You