

## Detailed program

Sunday, 08-07-2018; FIT Building, Multifunction Hall 201	
14:00-15:40	Registration
15:45-16:15	Welcome coffee
16:15-17:30	<b>MoTivMiles:</b> Introduction to Leadership & Performance Program <ul style="list-style-type: none"> <li>• Meet and greet;</li> <li>• Introduction to the school; Instructions and Regulations</li> <li>• Team Dynamics &amp; Formation of teams</li> </ul>
18:30-21:00	Dinner and reception
Monday, 09-07-2018, FIT Building, Multifunction Hall 201	
9:00- 10:00	<b>Opening session; Chair: Shaojun Wei</b>
8:45	Group picture
9:00	Prof. Bin Yang, Vice president of Tsinghua University
9:15	Prof. Songde Ma, Former Vice Minister of MOST
9:25	Bas Pulles, Deputy Ambassador of the Netherlands in Beijing
9:35	Guangming Su, Director, China International Talent Exchange Foundation
9:45	Ning Li, Vice Director-General, Talent Exchange Centre, Ministry of Industry and Information Technology of China
9:55	Jacob Fokkema, Former Rector of Delft University of Technology
10:05	Said Hamdioui (Program)
10:15-10:40	<b>Coffee break</b>
10:40-12:30	<b>Keynotes; Chair: Zewen Liu</b>
10:40-11:25	Shaojun Wei, Tsinghua University, IC industry development in China
11:35-12:20	Mart Graef, TUDelft, Micro- and Nano-electronics in the Netherlands
12:30-14:00	<b>Lunch</b>
14:00-16:45	<b>Invited talks; Rhom Building, 3<sup>rd</sup> Floor, Meeting Room Chair: Said Hamdioui</b>
14:00-14:20	Yu Wang, Prof. Tsinghua University
14:20-14:40	Chao Yue, CEO, Unigroup Tongxin
14:40-15:00	Eduard Hoeberichts, MAPPER-UniqIC
15:00-15:30	Coffee break
15:30-16:30	Panel session: IC for AI opportunities and Challenges Moderator Jacob Fokkema Panelists: Eduard Hoeberichts, Shaojun Wei, Yu Wang, Chao Yue
16:30-18:30	Students interaction & preparation for mini-conferences IMETU Building, Room B312
19:00	Dinner
20:00-21:00	<b>MoTivMiles:</b> Advanced Human Competencies-1: Personal Leadership IMETU Building, Room B312

Tuesday, 10-07-2018	
<b>8:30-10:15</b>	<b>Session 1 Conventional Technologies 1, FIT Building room 312</b>
8:30	Terabyte on-chip communication system, Part I Zheng Wang I (UESTC)
9:15	Break
9:30	Terabyte on-chip communication system, Part I Zheng Wang (UESTC)
<b>10:15-10:45</b>	Coffee break
<b>10:45-12:30</b>	<b>Session 2: Conventional technologies 2</b>
10:45	Limits in accuracy and time, Part I Marcel Pelgrom (TUD; TU/e)
11:30	Break
11:45	Limits in accuracy and time, Part II Marcel Pelgrom (TUD; TU/e)
<b>12:30-14:00</b>	Lunch
<b>14:00-15:45</b>	<b>Session 3: Conventional technologies 3, IMETU Building, B312</b>
14:00	Design of RF Transceivers for Medical Application, Zhihua Wang, IEEE Fellow, Tsinghua University
14:45	Break
15:00	An Overview and Design Technologies for IoT and Machine Learning Platforms, Jose Pineda de Gyvez (NXP ; TU/e)
<b>15:45-16:15</b>	Coffee break
<b>15:15-18:00</b>	Students interaction & preparation for mini-conferences
<b>18:30-20:00</b>	Dinner
<b>20:00-21:30</b>	<b>MoTivMiles:</b> Advanced Human Competencies-2: IMETU Building, Room B312 Culture-Part 1

Wednesday, 11-07-2018	
<b>8:30-10:15</b>	<b>Session 4: Emerging technologies 1, FIT Building room 312</b>
8:30	'Graphene and 2D materials: the bumpy road to van der Waals heterostructures; Sten Vollerbregt, (TUD)
9:15	Break
9:30	AI and Intelligent IC Design/Manufacturing, David Pan, IEEE Fellow (UT Austin)
<b>10:15-10:45</b>	Coffee break
<b>10:45-12:30</b>	<b>Session 5: Emerging technologies 2</b>
10:45	Sensors for IOT and AI Zewen Liu, Tsinghua University,
11:30	Break
11:45	Advanced process technology for 3D nanoelectronics, Fred Roozeboom (TU/e, NL)
<b>12:30-14:00</b>	Lunch
<b>14:00-20:00</b>	<b>Social event: IMETU Clean Room Lab Tour and Jingshan Park/Houhai Hutong (Close to Tianmen Square)</b>
<b>20:30-21:15</b>	Session 6: Visionary talk Science & Technology in philosophical and historical perspective, Jacob Fokkema (TUD)

Thursday, 12-07-2018	
<b>8:30-10:15</b>	<b>Session 7: Emerging technologies; FIT Building room 312</b>
8:30	Neuromorphic computing based on memristor devices, Huaqiang Wu, Tsinghua University
9:15	Break
9:30	Memristive devices for Computing: Hope or Hype? Said Hamdioui (TUD)
10:15	Coffee break
<b>10:45-12:30</b>	<b>Session 8: ICs for AI 1</b>
10:45	E/M DNN for AI SoC (Part I) Hoi-Jun Yoo, IEEE Fellow, KAIST
11:30	Break
11:45	E/M DNN for AI SoC (Part II) Hoi-Jun Yoo, IEEE Fellow, KAIST
12:30-14:00	Lunch
<b>14:00-15:45</b>	<b>Session 9: Start-ups and entrepreneurship FIT Building Multifunction hall 201</b>
14:00	Qiang Xu, DENSSolutions B.V., the Netherlands
14:25	Kees Beenakker, Jiaco-Instruments, Delft, the Netherlands
14:50	Xiaowei, Li, CAS
15:15	Fred-Liao, Iluvatar CoreX
<b>15:40-16:00</b>	Coffee break
<b>16:00-17:00</b>	Session 11: panel session on entrepreneurship Title: how to become a successful entrepreneur? Moderator: Said Hamdioui Panellists: Qiang Xu, Kees Beenakker, Xiaowei Li, Fred Liao
<b>17:00-19:00</b>	Students interaction & preparation for mini-conferences
<b>18:30-20:00</b>	Dinner
<b>20:00-21:30</b>	<b>MoTivMiles: Advanced Human Competencies-3:</b> IMETU Building, Room B312 • Culture – Part 2

Friday,13-07-2018	
<b>8:30-10:15</b>	<b>Session 12: ICs for AI 2 , IMETU Building B312</b>
8:30	Design and application of artificial intelligence chip : hardware and software collaboration Zhongmin Chen, Deephi-Tech
9:15	Break
9:30	AI with speech: machine learning and chip implementation Dong Wang, Tsinghua University
<b>10:15-10:45</b>	Coffee break
<b>10:45-12:30</b>	<b>Session 13: ICs for AI 3; IMETU Building B312</b>
10:45	Emerging computing hardware for future artificial intelligence Yuchao Yang, Beijing University
11:30	Break
11:45	Exploring Deep Learning for Hardware Attacks, Mottaqiallah Taouil, TUD, NL
<b>12:30-14:00</b>	<b>Lunch</b>
<b>14:00-15:45</b>	Break, students interaction & preparation for miniconferences IMETU Building B312
<b>16:15-17:30</b>	Session 15: MoTiv training (IMETU Building B312) <ul style="list-style-type: none"> <li>• Intercultural Quiz (Said Hamdioui and Zewen Liu)</li> <li>• Leadership</li> </ul>
<b>18:30-20:00</b>	Dinner
<b>20:00-22:30</b>	Students interaction & preparation for mini-conferences IMETU Building B312

Saturday, 14-07-2018, FIT Building Multifunction hall 201	
<b>8:30-12:30</b>	<b>Mini-conference (Zewen Liu and Said Hamdioui)</b>
9:00-9:40	Blue Team
9:50-10:30	Red Team
10:50-11:30	Green Team
11:40- 11:20	Yellow Team
<b>12:30-14:00</b>	<b>Lunch</b>
<b>14:00-15:30</b>	<b>Closing Ceremony (Zewen Liu and Said Hamdioui )</b>
	Certificate ceremony Word of students' representative (one from CN and one from NL) Word of the summer school representative Closing speech