**ARCHITECTURE AND SUSTAINABLE DESIGN (ASD) PILLAR**

<table>
<thead>
<tr>
<th>Faculty / Supervisor</th>
<th>Email Contact</th>
<th>Research Interests (Potential PhD Project Title/Area)</th>
</tr>
</thead>
</table>
| Michael BUDIG            | michael_budig@sutd.edu.sg      | • Construction design with the implementation of digital design and fabrication technologies  
                                 • Parametric design  
                                 • Timber construction, concrete construction, tropical architecture and construction  
                                 • Material consumption |
| Carlos BAÑÓN             | carlos_banon@sutd.edu.sg       | • Design Thinking  
                                 • Architecture Practice and Parametric Design  
                                 • Computation Pertaining to the Description, Generation and Construction of Architecture and Urban Environments  
                                 • Digital Fabrication and Design Optimization |
| CHONG Keng Hua           | chongkenghua@sutd.edu.sg       | • People-environment studies and public space design  
                                 • Social sustainability and participatory community design process  
                                 • Socio-cultural cognition of space and architectural representation |
| Stylianos DRITSAS        | dritsas@sutd.edu.sg            | • Design Computation  
                                 • Building Envelopes  
                                 • Digital Fabrication  
                                 • Construction Automation  
                                 • Design Optimization |
<table>
<thead>
<tr>
<th><strong>Faculty / Supervisor</strong></th>
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<th><strong>Research Interests (Potential PhD Project Title/Area)</strong></th>
</tr>
</thead>
</table>
| Oliver HECKMANN          | oliver_heckmann@sutd.edu.sg | - Architectural design  
- Innovative housing with focus on urban context and inclusion  
- Urban transformations  
- Frictions and revitalisation |
| Jeffrey HUANG            | jeffrey_huang@sutd.edu.sg | - Computational Urbanism  
- Interactive Architecture  
- Smart Cities  
- Parametric Design  
- Artificial Morphogenesis  
- Design Thinking |
| J. Alstan JAKUBIEC       | john_jakubiec@sutd.edu.sg | - Daylighting  
- Visual Comfort and Environmental Controls  
- Energy  
- Urban Sustainability |
| Sam Conrad Joyce         | sam_joyce@sutd.edu.sg | - Design Optimization  
- Design Space Exploration  
- Digital Morphogenesis  
- Scalable and Distributed Systems  
- Data Analytics and Artificial Intelligence  
- Web Based Visualisation |
| Sawako KAIJIMA           | sawakokaijima@sutd.edu.sg | - Computation Pertaining to the Description, Generation, and Construction of Architecture and Urban Environments  
- Design Performance and Architectural Operations Research  
- Structural Analysis and Tools |
<table>
<thead>
<tr>
<th>Faculty / Supervisor</th>
<th>Email Contact</th>
<th>Research Interests (Potential PhD Project Title/Area)</th>
</tr>
</thead>
</table>
| Felix RASPALL             | felix_raspall@sutd.edu.sg            | • Design Thinking and Methods  
• Design Computation  
• Sensing technologies  
• Digital Fabrication  
• Informal and vernacular construction |
| Thomas SCHROEPFER         | thomas.schroepfer@sutd.edu.sg        | • Environmental Strategies in Architecture and Urban Design  
• Climate-Responsive Design Optimisation and Integration  
• Advanced Design Methods and Building Processes  
• Innovative Building Structure and Form |
| Kenneth TRACY             | kenneth_tracy@sutd.edu.sg            | • Material Simulation  
• Applied Building Information Modeling  
• Traditional/Contemporary Craft Techniques  
• Automated and Manual Construction Integration |
| Bige TUNCER               | bige_tuncer@sutd.edu.sg              | • Information Architecture  
• Building Information Modelling  
• Design Learning Environments |
| YEO Kang Shua             | yeokangshua@sutd.edu.sg              | • Architecture and Sustainable Design and Practice  
• Architectural Conservation and Digitisation  
• Architectural History, Theory and Criticism |
| Christine YOGIAMAN        | christine_yogiaman@sutd.edu.sg       | • Material Behaviour and Logic in relation to sustainable material practice.  
• Craft in the intersection of Digital Manufacturing Technology |

*You may wish to visit the Faculty/Supervisor’s page for their latest research interests.*
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</thead>
</table>
| Ricky ANG               | ricky_ang@sutd.edu.sg          | • Plasma  
• Electron beam  
• Quantum diode  
• Quantum plasmonic  
• Novel material-based devices                                      |
| Avinash BAJI            | avinash_baji@sutd.edu.sg       | • Electrospun fibers and composites for tissue engineering applications.  
• Polymer fibers for multifunctional applications.  
• Stimuli responsive polymer fibers  
• Polymer nanocomposites  
• Self-cleaning, superhydrophobic and superhydrophilic materials             |
| Roland BOUFFANAIS       | bouffanais@sutd.edu.sg         | • Complexity in Engineering Systems  
• Complexity in Biological Systems  
• Complex Fluids  
• Complexity in Physical & Quantum Systems  
• Complexity & Architectural Design                                      |
| David BRAUN             | david_braun@sutd.edu.sg        | • Human-machine interface  
• Robotics  
• Automation & Control                                                      |
<table>
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<tr>
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</thead>
</table>
| Arief Suriadi BUDIMAN                | asbudiman@sutd.edu.sg      | • Nanomaterials characterization  
• Nanomechanical behaviors of materials  
• Advanced structural and functional materials design for next generation energy technologies  
• Design and materials for extreme environments (energy, military, aero space applications)  
• Design for reliability of advanced devices/systems (micro/nanoelectronics, energy/solar PV, etc.)  
• Design and integration of advanced architecture for 3D IC (integrated circuit) technologies |
| Rajesh CHANDRAMOCHANADAS             | rajesh@sutd.edu.sg         | • Mechanistic understanding of Egress and Invasion of Human Malaria parasites using multi-disciplinary approaches  
• Characterization of host-pathogen communication systems in parasitic infections  
• Identification of novel drug targets and targeted design of pharmacologically active scaffolds |
| CHEN Lujie                           | chenlujie@sutd.edu.sg      | • Optical metrology  
• Medical imaging  
• Visualisation and prototyping |
| Martin L. DUNN                       | martin_dunn@sutd.edu.sg    | • Mechanics and physics of materials and structures  
• Active materials, constitutive modelling of polymers and composites  
• Computational design, topology optimization  
• Additive manufacturing, 4D printing  
• Fracture and fatigue |
| Javier G. FERNANDEZ                 | javier.fernandez@sutd.edu.sg | • Material Science  
• Bio-Medical Engineering  
• Electrical Engineering |
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<th>Research Interests (Potential PhD Project Title/Area)</th>
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</table>
| **Joseph FITZSIMONS**                     | joseph_fitzsimons@sutd.edu.sg                 | • Models of quantum computation  
• Quantum computer science (cryptography, computational complexity, information theory, etc.)  
• Quantum metrology  
• Architectures for scalable quantum computing  
• Control of quantum systems  
• Quantum correlations |
| FOONG Shaohui                             | foongshaohui@sutd.edu.sg                       | • Mechatronics and automation  
• Electromagnetic actuation and sensing  
• System dynamics and control  
• Medical devices  
• Unmanned systems and robotics |
| **Michinao HASHIMOTO**                    | hashimoto@sutd.edu.sg                          | • Bio-medical engineering |
| **HUANG Shaoying**                        | huangshaoying@sutd.edu.sg                     | • Electromagnetic theories and applications  
• Magnetic resonance imaging (MRI)  
• Microwave/RF devices, antennas  
Computational electromagnetics, especially the acceleration of calculations for periodic structures  
• EM modeling for nanostructures |
| **Subburaj KARUPPPASAMY**                 | subburaj@sutd.edu.sg                           | • Medical Imaging and Image Analysis  
• Medical Devices  
• Musculoskeletal biomechanics  
• Understanding long-term effects of physical activity / treatments in adolescents |
| **Elica KYOSEVA**                         | elica_kyoseva@sutd.edu.sg                     | • Quantum control of light and matter  
• Engineering of systems for quantum information processing  
• Control in open systems  
• Quantum state engineering |
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<tr>
<td><strong>LIM Seh Chun</strong></td>
<td><a href="mailto:sehchun_lim@sutd.edu.sg">sehchun_lim@sutd.edu.sg</a></td>
<td>• Tribology of engineering materials</td>
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<td>• Innovation and entrepreneurship ecosystems</td>
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<td>• Network analysis of complex systems</td>
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<td><strong>Suranga NANAYAKKARA</strong></td>
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<td>• Design decision tools and methods</td>
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<td></td>
<td></td>
<td>• Creativity techniques</td>
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<tr>
<td><strong>PEY Kin Leong</strong></td>
<td><a href="mailto:peykinleong@sutd.edu.sg">peykinleong@sutd.edu.sg</a></td>
<td>• Cu interconnects and low-k materials reliability.</td>
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<td></td>
<td></td>
<td>• Pulsed laser annealing for transistor engineering.</td>
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<td></td>
<td></td>
<td>• Nanosilicided hetero-junction wire and III-V nanowires for MOSFETs.</td>
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<td></td>
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<td>• Nanowire-based devices for computational, memory, microbattery, photovoltaic and bio-</td>
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<td></td>
<td></td>
<td>applications.</td>
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<tr>
<td><strong>Dario POLETTI</strong></td>
<td><a href="mailto:dario_poletti@sutd.edu.sg">dario_poletti@sutd.edu.sg</a></td>
<td>• Many-body quantum dynamics</td>
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<td></td>
<td></td>
<td>• Classical and quantum thermodynamics at the nano-scale</td>
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<td></td>
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<td>• Computational quantum physics</td>
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| Nagarajan RAGHAVAN           | nagarajan@sutd.edu.sg             | • Material Science  
• Electronics Engineering  
• Infocomm Applications                                                                                                                                                           |
| Arlindo SILVA                | arlindo_silva@sutd.edu.sg         | • Design methods and techniques  
• Product design and development  
• Design Science                                                                                                               |
| Robert Edward SIMPSON        | robert_simpson@sutd.edu.sg        | • Chalcogenide Materials Design  
• Materials Design Methodologies  
• Crystal Nanostructure Design  
• Phase Change Memory  
• Photonics  
• Chalcogenides                                                                                                                   |
| SOH Gim Song                 | sohgimsong@sutd.edu.sg            | • Articulated System and Mechanism Design  
• Analytical and Computational Kinematics  
• Robotics  
• Biomechanics  
• Personal Mobility Devices                                                                                                          |
| Dawn TAN                     | dawn_tan@sutd.edu.sg              | • Silicon Photonics  
• Nonlinear Optics  
• Nanophotonics  
• Optoelectronics  
• Biophotonics                                                                                                                     |
| TAN Mei Chee                 | meichee.tan@sutd.edu.sg           | • Solution-based processing of nanomaterials  
• Multi-functional composite fabrication  
• Structure-property relationship of multi-scale composites                                                                       |
| TAN U-Xuan                   | uxuan_tan@sutd.edu.sg             | • Medical & Surgical Robotics  
• Rehabilitative Technology  
• Mechatronics  
• Micromanipulation                                                                                                                  |
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<tr>
<td><strong>Pablo Valdivia y Alvarado</strong></td>
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<td>• Bio-inspired design</td>
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<td></td>
<td>• Soft-under-actuated robots and sensors</td>
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<td><a href="http://brd.sutd.edu.sg/">http://brd.sutd.edu.sg/</a></td>
<td></td>
<td>• Modeling unsteady locomotion in fluid environments</td>
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<td>• Environmental robotics</td>
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<tr>
<td><strong>Erik WILHELM</strong></td>
<td><a href="mailto:erikwilhelm@sutd.edu.sg">erikwilhelm@sutd.edu.sg</a></td>
<td>• Numerical optimisation</td>
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<td></td>
<td>• Modelling and simulation</td>
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<td><a href="http://people.sutd.edu.sg/~erikwilhelm">http://people.sutd.edu.sg/~erikwilhelm</a></td>
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<td>• Algorithm and system design</td>
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<td>• Decision analysis</td>
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<td><strong>Kristin L. WOOD</strong></td>
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<td>• Innovation methods</td>
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<td>• Design methods and techniques</td>
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<td>• Innovative technology and development</td>
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<td><strong>WU Ping</strong></td>
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<td>• Chemical thermodynamics/kinetics</td>
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<td>• Computational quantum chemistry</td>
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<td><a href="http://people.sutd.edu.sg/~wuping">http://people.sutd.edu.sg/~wuping</a></td>
<td></td>
<td>• Materials informatics</td>
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<td>• Green energy devices</td>
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<td>• Biomedical devices</td>
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<td>• Designer 2D-electronic structures</td>
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<tr>
<td><strong>YANG Hui Ying</strong></td>
<td><a href="mailto:yanghuiying@sutd.edu.sg">yanghuiying@sutd.edu.sg</a></td>
<td>• Low dimensional nanostructures - synthesis and applications</td>
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<td><a href="http://people.sutd.edu.sg/~yanghuiying">http://people.sutd.edu.sg/~yanghuiying</a></td>
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<td><strong>YANG Shengyuan</strong></td>
<td><a href="mailto:shengyuan_yang@sutd.edu.sg">shengyuan_yang@sutd.edu.sg</a></td>
<td>• Condensed Matter Physics</td>
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<td>• Topology in Solid State Physics</td>
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<td>• Material Physics</td>
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<td>• Transport Modeling and Theory</td>
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<td>• Spintronics, Magnetic Devices</td>
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<tr>
<td><strong>Joel YANG</strong></td>
<td><a href="mailto:joel_yang@sutd.edu.sg">joel_yang@sutd.edu.sg</a></td>
<td>• Nanoplasmonics, Plasmonic Color Printing</td>
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<tr>
<td><a href="http://epd.sutd.edu.sg/faculty/joel-yang/">http://epd.sutd.edu.sg/faculty/joel-yang/</a></td>
<td></td>
<td>• Nanofabrication at sub-10-nm dimensions: Electron Beam Lithography &amp; Directed Self Assembly of Nanoparticles</td>
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<tr>
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</tbody>
</table>
| YE Ai                      | ye_ai@sutd.edu.sg              | • Micro/nanofluidics  
• BioMEMS  
• Biosensing                                                        |
| YEO Kiat Seng              | kiateng_yeo@sutd.edu.sg         | • Low-power IC Design  
• Internet of Things  
• Visible Light Communications  
• CMOS Technology  
• RF/mm-wave IC Design                                                 |
| YUEN Chau                  | yuenchau@sutd.edu.sg            | • Green Communications  
• Smart Grid  
• Cloud / Distributed Storage  
• Large-Scale MIMO  
• Energy Harvesting  
• Physical Layer Security  
• Network Coding  
• Cognitive Radio  
• Machine-to-Machine (M2M)  
• Cyber Physical Security                                                |
| ZHAO Rong                  | zhaorong@sutd.edu.sg            | • The next generation NVM technologies and applications (PCM, RRAM, Memristor)  
• Bio-inspired artificial cognitive memory  
• Reconfigurable devices  
• Neuromorphic cognitive system  
• Memristor electronics.  
• MEMS                                                                   |

*You may wish to visit the Faculty/Supervisor’s webpage for their latest research interests.*
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</table>
| Bikramjit DAS        | bikram@sutd.edu.sg | • Applied probability  
|                      |               | • Stochastic modelling  
|                      |               | • Statistical inference  |
| Costas COURCOUBETIS  | costas@sutd.edu.sg | • Economics of networks and of internet technologies  
|                      |               | • Pricing, regulation policy in telecommunications  
|                      |               | • Game theory  
|                      |               | • Networking  |
| Georgios PILIOURAS   | georgios@sutd.edu.sg | • Algorithmic game theory  
|                      |               | • Computational learning theory  
|                      |               | • Multi-agent learning  
|                      |               | • Dynamical systems  |
| James WAN            | james_wan@sutd.edu.sg | • Special functions  
|                      |               | • Experimental mathematics  
|                      |               | • Mathematical physics/chemistry  
|                      |               | • Lattice sums  
|                      |               | • Random walks  |
| Jingnan CHEN         | jingnan_chen@sutd.edu.sg | • Quantitative finance  
|                      |               | • Operations research  |
| Karthik NATARAJAN    | natarajan_karthik@sutd.edu.sg | • Operations research  
<p>|                      |               | • Optimisation under uncertainty  |</p>
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</table>
| Lingjie DUAN                 | lingjie_duan@sutd.edu.sg                | • Network economics  
• Game theory  
• Network optimisation  
• Mobile telecommunication systems  
• Energy harvesting  
• Smart grid |
| Lynette CHEAH                | lynette_cheah@sutd.edu.sg               | • Life cycle assessment methods and applications  
• Material and energy flow analysis  
• Sustainable urban transportation |
| Niyazi TANERI                | niyazitaneri@sutd.edu.sg                | • Optimisation  
• Game theory  
• Contract theory  
• Empirical analysis  
• Innovation management  
• Pharmaceutical alliances |
| Selin Damla AHIPASAOGLU      | ahipasaoglu@sutd.edu.sg                 | • Nonlinear optimisation  
• Sparse learning  
• Theoretical computer science  
• Algorithmic game theory |
| Shaowei LIN                  | shaowei_lin@sutd.edu.sg                 | • Algebraic geometry  
• Statistical learning  
• Neural networks  
• Homotopy type theory  
• Internet of Things |
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| ShrutiVandana SHARMA | shrutivandana@sutd.edu.sg | - Optimisation  
- Decentralised decision making  
- Mechanism design  
- Game theory  
- Supply chain coordination and risk management  
- Inventory management  
- Online advertising  
- Social networks |
| Stefano GALELLI | stefano_galelli@sutd.edu.sg | - Dynamics and control  
- Optimisation  
- Machine learning  
- Applied systems analysis  
- Environmental and water resources management  
- Water-energy nexus  
- Decision support systems |
| Ying XU | xu_ying@sutd.edu.sg | - Stochastic modelling  
- Game Theory  
- Service operations management  
- Socially responsible operations  
- Renewable energy demand-side management |
| Yunjian XU | yunjian_xu@sutd.edu.sg | - Electricity markets and power systems  
- Mechanism design and auction theory  
- Dynamic programming  
- Stochastic control |
| Zibo XU | zibo_xu@sutd.edu.sg | - Game theory  
- Microeconomic theory  
- Evolutionary dynamics |

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</table>
| Aditya P MATHUR          | aditya_mathur@sutd.edu.sg              | • Information security in cyber physical systems  
• Software testing, reliability and security |
| Alexander BINDER         | alexander_binder@sutd.edu.sg           | • Multi-modal information retrieval  
• Machine learning  
• Artificial intelligence  
• Computer vision  
• Image processing |
| David YAU                | david_yau@sutd.edu.sg                  | • Network security and privacy  
• Cyber physical system security and privacy  
• Networking and wireless sensor networks  
• Smart grid and demand response |
| Hyowon LEE               | hlee@sutd.edu.sg                       | • Human-computer interaction  
• Interaction design  
• Emerging interactivity  
• Usability engineering  
• Lifelogging |
| Martin OCHOA             | martin_ochoa@sutd.edu.sg               | • Information security  
• Cyber physical systems  
• Software engineering |
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</table>
| Meihui ZHANG                | meihui_zhang@sutd.edu.sg          | • Database  
• Big data analytics                                                                                           |
| Ngai-Man CHEUNG             | ngaiman_cheung@sutd.edu.sg        | • Image/Video processing and analysis, image recognition  
• Signal processing  
• Multimedia coding and streaming  
• Mobile image processing and analysis for medical applications  
• Signal processing for cyber security |
| Nils Ole TIPPENHAUER        | nils_tippenhauer@sutd.edu.sg      | • Information security in cyber physical systems  
• Networking  
• Wireless and sensor networks                                                                                           |
| Sai-Kit YEUNG                | saikit@sutd.edu.sg                | • Computer vision  
• Computer graphics  
• Image/video processing  
• Fabrication  
• Medical imaging  
• Computational photography  
• Human computer interaction                                                                                           |
| Simon LUI                   | simon_lui@sutd.edu.sg             | • Audio information retrieval  
• Audio style retargeting  
• Audio discrimination  
• Computer music  
• Mobile music  
• Speech processing                                                                                                     |
<table>
<thead>
<tr>
<th>Faculty / Supervisor</th>
<th>Email Contact</th>
<th>Research Interests (Potential PhD Project Title/Area)</th>
</tr>
</thead>
</table>
| SUN Jun              | sunjun@sutd.edu.sg | • Formal methods  
|                      |               | • Software engineering  
|                      |               | • Program analysis  
|                      |               | • System verification  
|                      |               | • System security  
| Tony QUEK            | tonyquek@sutd.edu.sg | • Networking  
|                      |               | • Resource allocation  
|                      |               | • Signal processing  
|                      |               | • Wireless communications  
|                      |               | • Network science  
| Wei LU               | wei_lu@sutd.edu.sg | • Machine learning  
|                      |               | • Deep learning  
|                      |               | • Natural language processing  
|                      |               | • Big data analytics  
|                      |               | • Data mining  
|                      |               | • Artificial intelligence  
| Yue ZHANG            | yue_zhang@sutd.edu.sg | • Machine learning  
|                      |               | • Natural language processing  
|                      |               | • Machine translation  
|                      |               | • Artificial intelligence  
|                      |               | • Text mining  
|                      |               | • Computational finance  

*You may wish to visit the Faculty/Supervisor’s page for their latest research interests.*