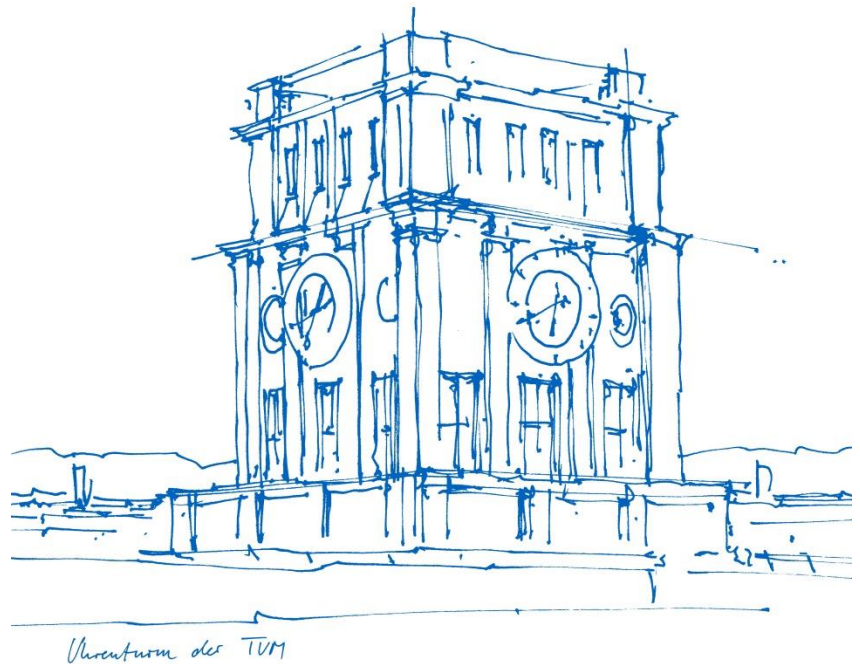Doctoral Candidates' Day 2022 – Poster Session
Thursday, 14th of July 2022
Start by 1 p.m.
Matriculation Hall, TUM

Uhrenturm der TUM

Program:

Welcome by Prof. Fottner and the Doctoral Representatives
Short Lectures and Presentation of Posters
Best Poster - Award

Short Lecture:

13:20 Mengyi Wei, Cartography and Visual Analytics:
"AI Ethics Issues in Real World: Evidence from AI Incident Database."

13:30 Fabian Romahn, Data Science in Earth Observation:
"Application of deep neural networks to retrieve cloud properties for Sentinel-4 (S4) and TROPOMI / Sentinel-5 Precursor (S5P)."

Tour A (three parallel guided tours)
Tour A1

13:35	Christina Plattner, Astronomical and Physical Geodesy: *"The UPLIFT research training group."*	Aerospace and Geodesy Civil and Environmental Engineering
13:40	Catharina Drexl, Engineering Geology: *"Geomechanical characterization of deep geothermal reservoirs in Bavaria, Germany."*	
13:45	Justin Mattheis, Engineering Geology: *"Fracture characterization of deep geothermal reservoirs in Bavaria."*	
13:50	Tanja Sattler, Engineering Geology: *"The influence of extremely abrasive rock on the drilling velocity and tool wear in bored piles."*	

Tour A2

13:35	Carsten Schade, Energy Efficient and Sustainable Planning and Building: *"Socioculture as a Lever for Social Sustainability in Design."*	Architecture Civil and Environmental Engineering
13:40	Simone Magdolen, Energy Efficient and Sustainable Planning and Building: *"Bewertung und Analyse der Energie- und Materialeffizienz von Sporthallen im urbanen Kontext."*	
13:45	Christoph Fleckenstein, Green Technologies in Landscape Architecture: *"KlimaKübelBäume."*	
13:50	Mathias Heidinger, Urban Development: *"The Knowledge Economy in Germany."*	

Tour A3

13:35	Atul Jaiswal, Hydraulic Engineering: *"CFD-DEM approach for simulation of infiltration in gravel bed."*	Civil and Environmental Engineering
13:40	Tian Lu, Hydrology and River Basin Management: *"Cascade features over compound droughts under different climate regimes from a dynamic perspective."*	
13:45	Mohammad Alqadi, Hydrology and River Basin Management: *"Decision Support Software and Database for Wellfield Management (DeMa)."*	
13:50	Francesca Ziliotto, Hydrology and River Basin Management: *"Flow-through experiments to investigate mixing processes in transient flow fields."*	

Coffee Break (approx. 30 min.)

Short Lecture:

14:30 Nadia Thalguter, Conservation-Restoration, Art Technology and Conservation Science:
"History in Layers – Future on Screen? The Multilayered Fragmentary Wall Paintings of the Magdalen Chapel of St. Emmeram's in Regensburg."

14:40 Mónica Basilio Hazas, Hydrology and River Basin Management:
"How do highly fluctuating rivers affect solute transport in the groundwater?"

14:50   Edwin Chingate, Urban Water Systems Engineering:
"Transformation of Trace Organic Chemicals by Microbial Communities Adapted to Aniline, Histidine or Di-sodium Succinate as Carbon Source."

Tour B (three parallel guided tours)

Tour B1

15:00	Asvath Ravichandran, Hydromechanics: *"Mechanism of sound creation, resonance and propagation in ventilation system."*	Civil and Environmental Engineering
15:05	Simon v. Wenczowski, Hydromechanics: *"Direct Numerical Simulation of Exchange Processes across the Interface between a Porous Medium and a Turbulent Flow."*	
15:10	Milica Ninosevic, Building Physics: *"A new evaluation system for sustainability assessment."*	
15:15	Yasir Rashid, Building Physics: *"Modelling of airflow in the air cavity of solar thermal façade systems."*	

Tour B2

15:00	Ulrich Schindler, Soil Mechanics and Foundation Engineering, Rock Mechanics and Tunneling: *"Mechanical behaviour of frozen soils: Lab testing and modelling."*	Civil and Environmental Engineering Engineering Physics and Computation
15:05	Mohamad Omidi, Hydrogeology: *"Quantification of degassing on the formation of carbonates on a local scale."*	
15:10	Renata Mwinome Kuutiero, Timber Structures and Building Construction: *"Sustainable construction among Developing Countries."*	
15:15	Paolo Ascia, Computational Solid Mechanics: *"A Technical Guideline to Design Safer Cars."*	

Short Lecture:

15:30   Ahmed Ismail, Automatic Control:
"Automatic control applications in metal forming."

15:40   Qi Wang, Nuclear Technology:
"Research on Advanced Clean Hydrogen Production Technology Driven by Nuclear Energy."

15:45 Best Poster - Award – Open End