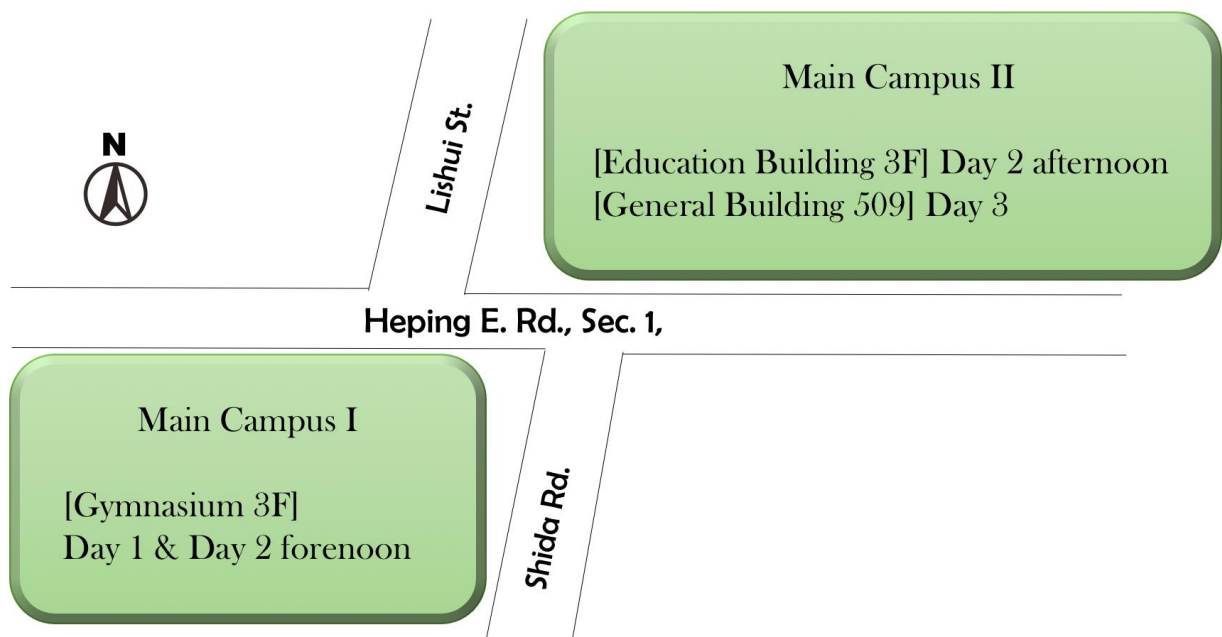


## Topics for the conference

- A1: Epistemology and thinking in interdisciplinary context
- A2: Epistemology in technology-supported learning environment (I)
- A3: Conceptions of learning science
- B1: Teachers' beliefs
- B2: Epistemology among science learners
- B3: Trend of epistemic development
- C1: Design beliefs and thinking
- C2: Epistemology in technology-supported learning environment (II)

## Venues maps

### PEL2019 VENUES MAP OF NTNU





# Campus II



National Taiwan Normal University Map (Main Campus II)

## 校本部II配置圖



## Program

<b>Day 1 (Nov. 28, 2019) Thursday</b> Venue: Gymnasium 3F (Main Campus I) 金牌講堂			Location
	09:00-09:30	Registration	Gymnasium 3F
	09:30-09:40	Opening Ceremony	Gymnasium 3F
Forenoon 1	09:40-10:40	<b>Keynote Speech (I)</b> <u><a href="#">Teaching critical reading and thinking through epistemic cognition: A classroom based approach</a></u>  <b>Keynote Speaker: Professor Ivar Bråten</b> <i>University of Oslo, Norway</i>  <b>Chair: Professor Chin-Chung Tsai</b> <b>National Taiwan Normal University, Taiwan</b>	Gymnasium 3F
	10:40-11:00	Tea Break	
Forenoon 2	11:00-12:40	<b>Paper presentation (Session A1)</b> <i>Topic: Epistemology and thinking in interdisciplinary context</i> <b>Presider: Professor Tan Seng Chee</b> <i>Nanyang Technological University, Singapore</i>  <i>Relationships between students' justification beliefs and eye-tracking measures during the reading of conflicting socio-scientific reports</i> Ching-Yeh Wang, National Taiwan Normal University, Taiwan Meng-Jung Tsai, National Taiwan Normal University, Taiwan  <i>Exploring the relationship between middle school students' conceptions of learning STEM, STEM self-efficacy beliefs and approach of learning STEM</i> Seng Yue Wong, University of Malaya, Malaysia  <i>Review on the Relationship between Epistemological Beliefs and Higher-Order Thinking</i> Dandan Wu, Macquarie University, Australia Zhi Hong Wan, The Education University of Hong Kong, Hong Kong S.A.R. China  <i>Validating an instrument for epistemic awareness of scientific model and modeling and investigating its relationship to scientific epistemic beliefs</i> Silvia Wen-Yu Lee, National Changhua University of Education, Taiwan Hung-Ming Lin, Minghsin University of Science and Technology, Taiwan  <i>Examining critical incidents and critical timing of epistemic beliefs changes in young teenagers</i> Wincy Wing Sze Lee The Education University of Hong Kong	Gymnasium 3F
	12:40-13:30	Lunch	

<b>Afternoon 1</b>	<b>13:30-14:10</b>	<p><b>Invited Speech (I)</b></p> <p><i><a href="#">Personal epistemology in specific contexts of modeling and reasoning</a></i></p> <p><b>Invited Speaker: Professor Hsin-Yi Chang</b> National Taiwan Normal University, Taiwan</p> <p><b>Chair: Professor Fang-Ying Yang</b> National Taiwan Normal University, Taiwan</p>	<b>Gymnasium 3F</b>
<b>Afternoon 2</b>	<b>14:10-15:10</b>	<p><b>Paper presentation (Session A2)</b> <i>Topic: Epistemology in technology-supported learning environment (I)</i></p> <p><b>Presider: Professor Hsin-Yi Chang</b> National Taiwan Normal University, Taiwan</p> <p><i>Transformative learning functions and constructivist mobile learning environment preference and the impact of mobile self-efficacy for high school students</i> Ching-Jung Chung, National Taiwan Normal University, Taiwan Chiu-Lin Lai, National Taipei University of Education, Taiwan</p> <p><i>Exploring elementary school students' justification belief and perceptions in a mobile role-playing game-based learning environment</i> Chih-Hung Chen, National Taichung University of Education, Taiwan Chin-Chung Tsai, National Taiwan Normal University, Taiwan</p> <p><i>Internet-specific epistemic beliefs and learning engagement in MOOC-supported blended learning environment: An exploratory study</i> Tonny Menglun Kuo, National Tsing Hua University, Taiwan Jian-Wei Tzeng, National Tsing Hua University, Taiwan Chin-Chung Tsai, National Taiwan Normal University, Taiwan</p>	<b>Gymnasium 3F</b>
	<b>15:10-15:30</b>	<b>Tea Break</b>	
<b>Afternoon 3</b>	<b>15:30-17:30</b>	<p><b>Paper presentation (Session A3)</b> <i>Topic: Conceptions of learning science</i></p> <p><b>Presider: Professor Aik-Ling Tan</b> Nanyang Technological University, Singapore</p> <p><i>Singaporean students' conception of learning science: An exploratory study</i> Aik-Ling Tan, Nanyang Technological University, Singapore Jyh-Chong Liang, National Taiwan Normal University, Taiwan Chin-Chung Tsai, National Taiwan Normal University, Taiwan</p> <p><i>How Thai high school biology students construct scientific explanation?: The evidence for the relationship of conceptions of learning, self-efficacy, and epistemic beliefs</i> Witoon Inpeng, Khon Kaen University, Thailand Parichat Saenna, Khon Kaen University, Thailand</p> <p><i>Conceptions of learning science of rural Thais high school</i> Nawarat Boonsawadkulchai, Khon Kaen University, Thailand Parichat Saenna, Khon Kaen University, Thailand Jyh-Chong Liang, National Taiwan Normal University, Taiwan</p> <p><i>Conceptions of learning and approaches to learning science of students in general and gifted programs</i> Lakkhana Tarasri, Khon Kaen University, Thailand Parichat Saenna, Khon Kaen University, Thailand</p>	<b>Gymnasium 3F</b>

		<p><b><i>Investigating undergraduate engineering students' beliefs about the nature of knowledge and knowing in Science: An Indian context</i></b> Kaushal Kumar Bhagat, Indian Institute of Technology Kharagpur, India Fang-Ying Yang, National Taiwan Normal University, Taiwan</p> <p><b><i>Conceptions of learning science among some Asian countries</i></b> Chin-Chung Tsai, National Taiwan Normal University, Taiwan Aik-Ling Tan, Nanyang Technological University, Singapore Parichat Saenna, Khon Kaen University, Thailand Seng Yue Wong, University of Malaya, Malaysia Jyh-Chong Liang, National Taiwan Normal University, Taiwan</p>	
<p><b>Day 2 (Nov. 29, 2019) Friday</b></p> <p>Venue: Gymnasium 3F (Main Campus I) 金牌講堂- <i>Forenoon</i> Education Building 3F Conference Room I (Main Campus II)- <i>Afternoon</i></p>			<b>Location</b>
	<b>09:00-09:30</b>	<b>Registration</b>	<b>Gymnasium 3F</b>
<b>Forenoon 1</b>	<b>09:30-10:30</b>	<p><b>Keynote Speech (II)</b></p> <p><u><a href="#"><i>Epistemic beliefs of teacher students and teachers: variable-oriented and person-oriented views</i></a></u></p> <p><b>Keynote Speaker: Professor Kirsti Lonka</b> <i>University of Helsinki, Finland</i></p> <p><b>Chair: Professor Ivar Bråten</b> <i>University of Oslo, Norway</i></p>	<b>Gymnasium 3F</b>
	<b>10:30-10:50</b>	<b>Tea Break</b>	
<b>Forenoon 2</b>	<b>10:50-12:50</b>	<p><b>Paper presentation (Session B1)</b> <i>Topic: Teachers' beliefs</i></p> <p><b>Presider: Dandan Wu</b> <i>Macquarie University, Australia</i></p> <p><b><i>Preservice teachers' beliefs about teaching knowledge</i></b> Leila E. Ferguson, Kristiania University College, Norway</p> <p><b><i>Exploring the relationships among mathematics teachers' conceptions and commitment in China</i></b> Wei Lin, South China Normal University, Guangzhou, China; Shenzhen Institute of Educational Science Research, Shenzhen, China Hongbiao Yin, Chinese University of Hong Kong, Hong Kong SAR, China Ching-Sing Chai, Chinese University of Hong Kong, Hong Kong SAR, China</p> <p><b><i>Measuring teachers' epistemic beliefs and practices in two cultural contexts</i></b> Heidi Lammassaari, University of Helsinki, Finland Kirsti Lonka, University of Helsinki, Finland Sufen Chen, National Taiwan University of Science and Technology, Taiwan Chin-Chung Tsai, National Taiwan Normal University, Taiwan</p>	<b>Gymnasium 3F</b>



		<p><i>Finnish teachers' epistemic theories, new epistemic aims of their work and the manifestation of work engagement and burnout symptoms</i> Heidi Lammassaari, University of Helsinki, Finland Kirsti Lonka, University of Helsinki, Finland Lauri Hietajärvi, University of Helsinki, Finland</p> <p><i>The role of science epistemic beliefs in predicting science teaching beliefs among Chinese pre-service kindergarten teachers</i> Dandan Wu, Macquarie University, Australia Ting Liao, Zhanjiang Preschool Education College, China Weipeng Yang, Singapore University of Social Sciences, Singapore Hui Li, Macquarie University, Australia</p> <p><i>Thai pre-service physics teachers' conceptions of learning physics — How are they related to their preparing a lesson plan in a real physics class?</i> Kreetha Kaewkhong, Chiang Mai University, Thailand Nikom Pongprasert, Chiang Mai University, Thailand Phakin Buranakrue, Chiang Mai University, Thailand</p>	
	12:50-13:30	<b>Lunch</b>	
Afternoon 1	13:30-14:10	<p><b>Invited Speech (II)</b></p> <p><u><a href="#">Conceptions of knowledge creation in education: a phenomenography of Singapore Chinese language teachers</a></u></p> <p><b>Invited Speaker: Professor Seng Chee Tan and Yuh Huann Tan</b> <i>Nanyang Technological University, Singapore</i></p> <p><b>Chair: Professor Carol Chan</b> <i>The University of Hong Kong, China</i></p>	Education Building 3F Conference Room I
Afternoon 2	14:10-14:50	<p><b>Invited Speech (III)</b></p> <p><u><a href="#">Epistemic cognition and motivation: How do these concepts relate?</a></u></p> <p><b>Invited Speaker: Professor Christian Brandmo</b> <i>University of Oslo, Norway</i></p> <p><b>Chair: Professor Meng-Jung Tsai</b> <i>National Taiwan Normal University, Taiwan</i></p>	Education Building 3F Conference Room I
	14:50-15:10	<b>Tea Break</b>	
Afternoon 3	15:10-17:10	<p><b>Paper presentation (Session B2)</b> <i>Topic: Epistemology among science learners</i></p> <p><b>Presider: Parichat Saenna</b> <i>Khon Kaen University, Thailand</i></p> <p><i>Science academic hardiness and leaning achievement of urban Thai 10th</i> Pitchayapa Chompoonuch, Khon Kaen University, Thailand Parichat Saenna, Khon Kaen University, Thailand Jyh-Chong Liang, National Taiwan Normal University, Taiwan</p>	Education Building 3F Conference Room I

	<p><b><i>Scientific epistemological beliefs and academic performance of high school biology students</i></b> Mayurachat Yonwilat, Khon Kaen University, Thailand Parichat Saenna, Khon Kaen University, Thailand</p> <p><b><i>Culture and learning science: Exploring secondary school student's epistemological beliefs in northeast Thailand</i></b> Parichat Saenna, Khon Kaen University, Thailand</p> <p><b><i>An exploratory study on Taiwanese high school students' beliefs about knowing and learning engagement in science</i></b> Tzung-Jin Lin, National Taiwan Normal University, Taiwan</p> <p><b><i>The relationship between scientific epistemic beliefs and conception of learning science and academic performance in Thailand university students</i></b> Wisanutorn Nammungkhun, Khon Kaen University, Thailand Chaiyapong Ruangsuwan, Khon Kaen University, Thailand Fang-Ying Yang, National Taiwan Normal University, Taiwan Sukanya Ruangsuwan, Khon Kaen University, Thailand</p> <p><b><i>Exploring middle school children's science epistemic beliefs: Implications for measurement</i></b> Jo Lunn, Queensland University of Technology, Australia Leila Ferguson, Kristiania University College, Norway Garth Stahl, University of South Australia, Australia Laura Scholes, Australian Catholic University, Australia Barbara Comber, University of South Australia, Australia Sarah McDonald, University of South Australia, Australia Reece Mills, Queensland University of Technology, Australia</p>	
	<p><b>17:10-17:20</b> <b>Break</b></p>	
	<p><b>17:20-18:00</b> <b>Paper presentation (Session B3)</b> <i>Topic: Trend of epistemic development</i></p> <p><b>Presider: Professor Kirsti Lonka</b> <i>University of Helsinki, Finland</i></p> <p><b><i>A literature survey of epistemic research (2000-2018): International publication patterns and research trends</i></b> Kai-Yu Tang, Ming Chuan University, Taiwan Chin-Chung Tsai, National Taiwan Normal University, Taiwan</p> <p><b><i>University students' epistemic profiles and their relations to conceptions of learning and academic progress: A longitudinal study</i></b> Elina E. Ketonen, University of Helsinki, Finland Kirsti Lonka, University of Helsinki, Finland &amp; Optentia Research Focus Area, NWU, South Africa Jan D. Vermunt, Eindhoven University of Technology, The Netherlands &amp; University of Cambridge, United Kingdom</p>	<p><b>Education Building 3F Conference Room I</b></p>



<b>Day 3 (Nov. 30, 2019) Saturday</b> Venue: General Building 509 (Main Campus II)			<b>Location</b>
	<b>09:00-09:30</b>	<b>Registration</b>	<b>General Building 509</b>
<b>Forenoon 1</b>	<b>09:30-10:30</b>	<b>Keynote Speech (III)</b> <u><a href="#">Primary school student's conception of knowledge building and their epistemic beliefs in the context of social studies</a></u> <b>Keynote Speaker: Professor Ching Sing Chai</b> <i>The Chinese University of Hong Kong, China</i> <b>Chair: Professor Huang-Yao Hong</b> <i>National Chengchi University, Taiwan</i>	<b>General Building 509</b>
<b>Forenoon 2</b>	<b>10:30-11:10</b>	<b>Invited Speech (IV)</b> <u><a href="#">Promoting epistemic cognition in knowledge building: Discourse, tools, and analytics</a></u> <b>Invited Speaker: Professor Bodong Chen</b> <i>University of Minnesota–Twin Cities, USA</i> <b>Chair: Professor Ching Sing Chai</b> <i>The Chinese University of Hong Kong, China</i>	<b>General Building 509</b>
	<b>11:10-11:30</b>	<b>Tea Break</b>	
<b>Forenoon 3</b>	<b>11:30-12:10</b>	<b>Paper presentation (Session C1)</b> <i>Topic: Design beliefs and thinking</i> <b>Presider: Professor Christian Brandmo</b> <i>University of Oslo, Norway</i>  <i>Exploring the relationships between pre-service teacher's design behaviours and their design belief</i> Chih-Hui Seet, National Chengchi University, Taiwan Huang-Yao Hong, National Chengchi University, Taiwan  <i>Conceptualizing design thinking as a knowledge creation model in teaching context</i> Nanxi Chen, National Chengchi University, Taiwan Huang-Yao Hong, National Chengchi University, Taiwan Ching Sing Chai, The Chinese University of Hong Kong, Sha Tin, Hong Kong	<b>General Building 509</b>
	<b>12:10-13:00</b>	<b>Lunch</b>	
<b>Afternoon 1</b>	<b>13:00-13:40</b>	<b>Invited Speech (V)</b> <u><a href="#">Promoting epistemic and conceptual change through knowledge building</a></u> <b>Invited Speaker: Professor Carol Chan</b> <i>The University of Hong Kong, China</i> <b>Chair: Professor Bodong Chen</b> <i>University of Minnesota–Twin Cities, USA</i>	<b>General Building 509</b>

<p><b>Afternoon 2</b></p>	<p><b>13:40-14:40</b></p>	<p><b>Paper presentation (Session C2)</b>  <i>Topic: Epistemology in technology-supported learning environment (II)</i>  <b>Presider: Yanjie SONG</b>  <i>The Education University of Hong Kong, Hong Kong, PRC</i></p> <p><i>The relationship between epistemic emotions and learning achievements in massive open online course</i>  Zhong-Mei Han, South China Normal University, China  Chang-Qin Huang, South China Normal University, China &amp; Zhejiang Normal University, China  Jian-Hui Yu, Zhejiang Normal University, China  Chin-Chung Tsai, National Taiwan Normal University, Taiwan</p> <p><i>A case study of changes of fourth-grade students' epistemological beliefs in science learning leveraged by a mobile learning platform</i>  Yanjie SONG, The Education University of Hong Kong, Hong Kong, PRC</p> <p><i>The effects of the cloud-based epistemic prompting on university students' multimodal multiple-document reading</i>  Yuan-Hsuan Lee, National Tsing Hua University, Taiwan</p>	<p><b>General Building 509</b></p>
	<p><b>14:40-15:00</b></p>	<p><b>Tea Break</b></p>	
<p><b>Afternoon 2</b></p>	<p><b>15:00-16:30</b></p>	<p><b>Panel Discussion</b></p> <p><u><a href="#">Research trends in personal epistemology and learning in the digital age</a></u></p> <p><b>Presider: Professor Chin-Chung Tsai</b>  National Taiwan Normal University, Taiwan</p> <p><b>Discussants:</b>  Professor Ivar Bråten, University of Oslo, Norway  Professor Kirsti Lonka, University of Helsinki, Finland  Professor Ching Sing Chai, The Chinese University of Hong Kong, China  Professor Carol Chan, The University of Hong Kong, China  Professor Seng Chee Tan, <i>Nanyang Technological University, Singapore</i>  Professor Christian Brandmo, University of Oslo, Norway  Professor Hsin-Yi Chang, National Taiwan Normal University, Taiwan  Professor Bodong Chen, University of Minnesota–Twin Cities, USA</p>	<p><b>General Building 509</b></p>
	<p><b>16:30-17:00</b></p>	<p><b>Closing Ceremony</b></p>	<p><b>General Building 509</b></p>