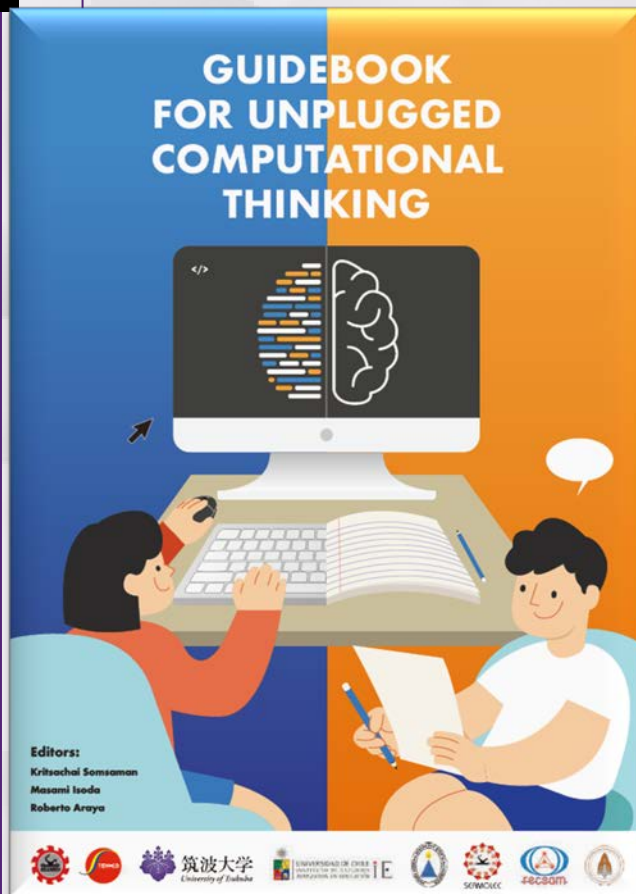


Lesson Study Preparation: Panel Session

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Overview of Guidebook for Unplugged Computational Thinking for Primary Education

Joint Collaboration



SEAMEO Regional Centre for STEM Education (*SEAMEO STEM-ED*), Thailand

SEAMEO Regional Centre for QITEP in Mathematics (*SEAMEO QITEP in Mathematics*), Indonesia

SEAMEO Regional Open Learning Center (*SEAMEO SEAMOLEC*), Indonesia

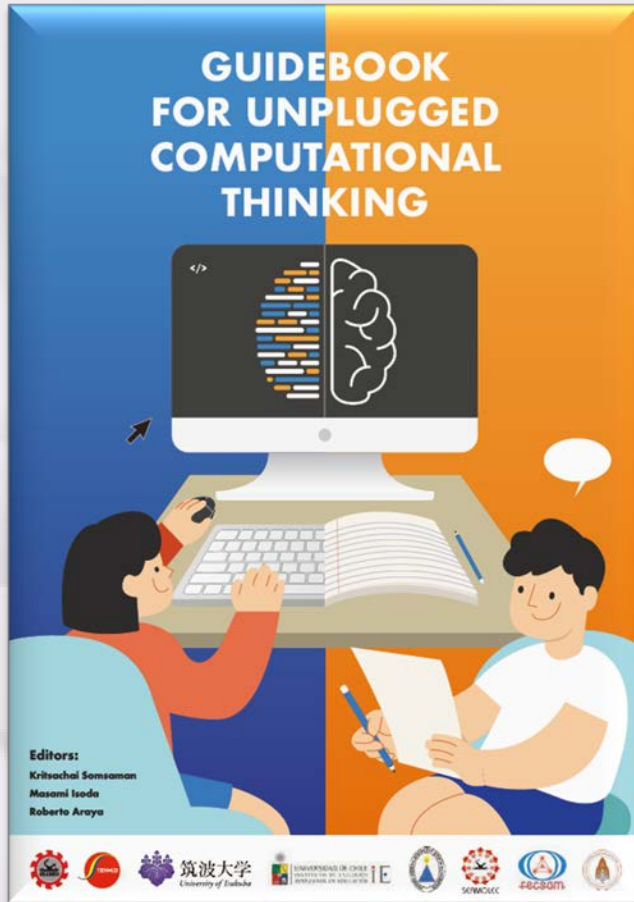
SEAMEO Regional Centre for Education in Science and Mathematics (*SEAMEO RECSAM*), Malaysia

*Center for Research on International Cooperation in Educational Development (CRICED), *University of Tsukuba, Japan*

*Institute for Research and Development in Teaching Profession (IRDTP) for ASEAN, *Khon Kaen University, Thailand*

Center for Advance Research in Education (Centro de Investigacion Avanzada en Educacion, CIAE), University of Chile, Chile

Overview of Guidebook for Unplugged Computational Thinking for Primary Education



Part 1:
Enjoy Computational
Thinking without Computer

Part 2:
Enjoy Computational
Thinking with Using
Computer

Chapter 1:
Using Colouring Books

Chapter 2:
In Mathematics Classroom

Chapter 3:
In STEM Classroom

Chapter 4:
Visible Programming

Chapter 5:
Let's Develop Machine

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Lesson Study Preparation: Panel Session

Speakers



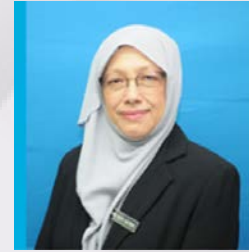
Dr Narumon Changsri

Director of Center for Research in Mathematics Education, Khon Kaen University, Thailand



Dr Sri Wulandari Danoebroto

Deputy Director for Program, SEAMEO Regional Centre for QITEP in Mathematics, (SEAMEO QITEP in Mathematics), Indonesia



Dr Wan Noor Adzmin Binti Mohd Sari

Specialist, SEAMEO Regional Centre for Education in Science and Mathematics (SEAMEO RECSAM), Malaysia

Moderator



Dr Orawan Sriboonruang

Knowledge Management Manager,

Southeast Asian Ministers of Education Organization Regional Centre for STEM Education (SEAMEO STEM-ED) Thailand



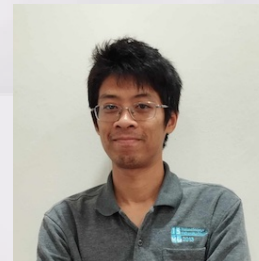
Dr Wahyudi

Director, SEAMEO Regional Open Learning Center (SEAMEO SEAMOLEC) Indonesia



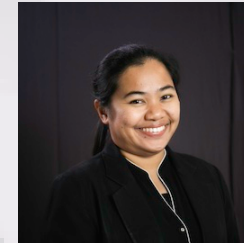
Dr Warabhorn Preechaporn

Mathematics Education Specialist Training & Research Division, SEAMEO RECSAM Malaysia



Dr Uk Inprasitha

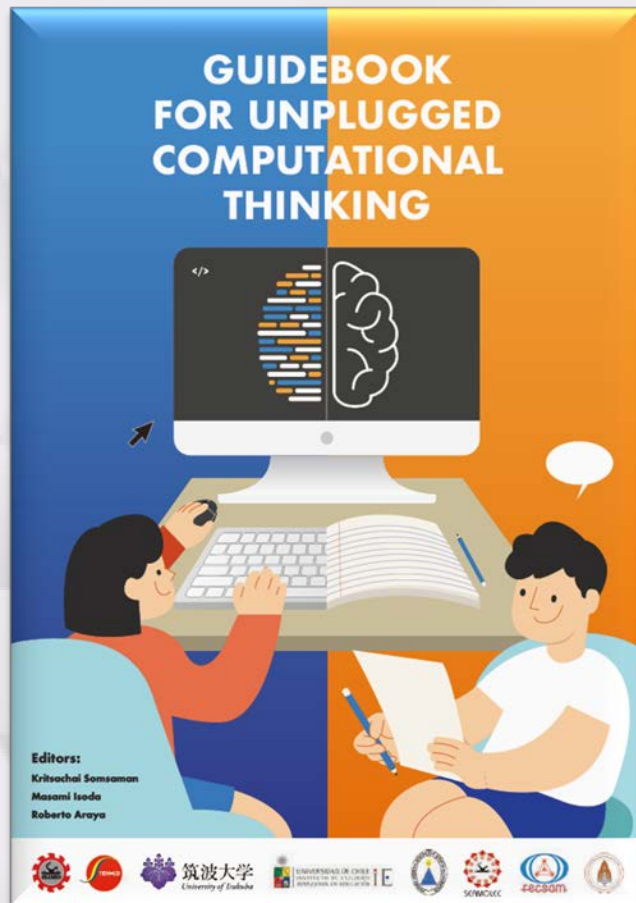
Specialist in Teaching Profession and Educational Staff Development, IRDTP, Khon Kaen University, Thailand



Dr Nisakorn Boonsena

Mathematics Education Program, Faculty of Education, Khon Kaen University, Thailand

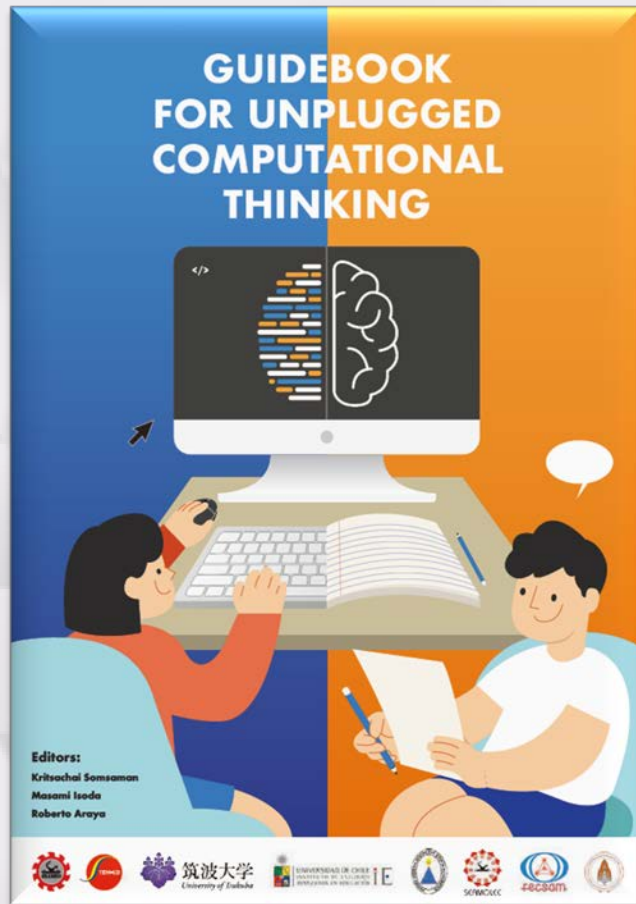
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Q & A

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Lesson Study Preparation: Panel Session



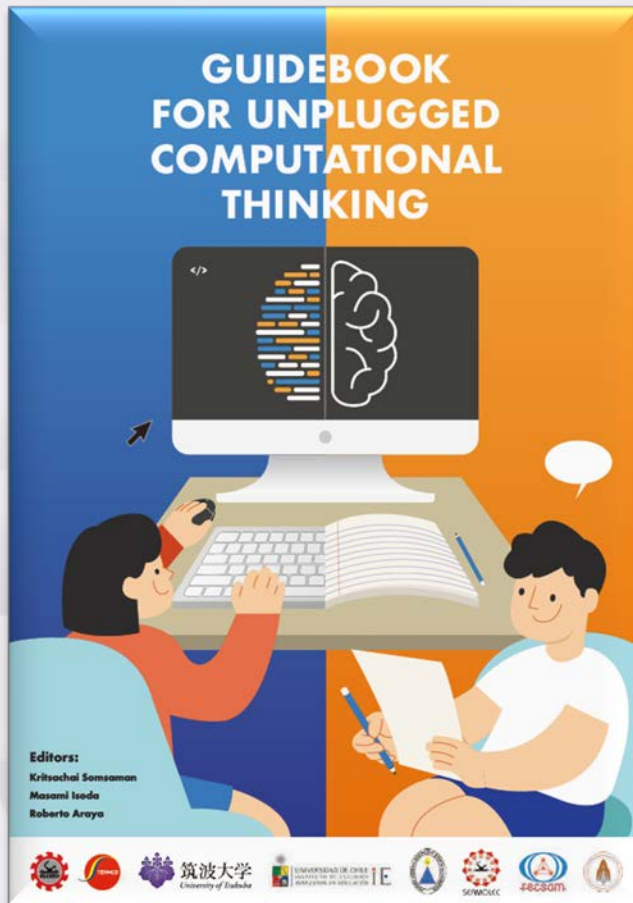
How does the adaptation and implementation of a pedagogically valuable picture book within classrooms enhance CT skills in Thai context? **Dr Narumon-KKU**

What specific strategies or activities can teachers use to make computational thinking and mathematics thinking concepts more visible and accessible to students? **Dr Wulan-SEAQIM**

What role do collaborative activities and group work play in teaching computational thinking and STEM Thinking, and how can teachers facilitate these effectively? **Dr Wan-RECSAM**

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Lesson Study Preparation: Panel Session



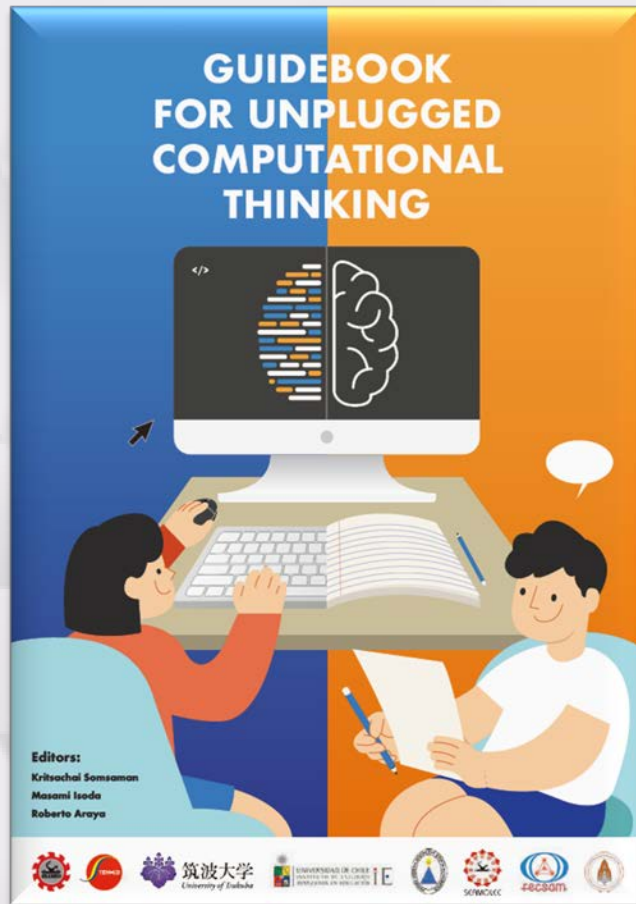
How can teachers create a supportive classroom environment that encourages students to engage in computational thinking and visible programming? **Dr Warabhon-RECSAM**

How can teachers use technology and digital tools to complement the Visible Thinking program and enhance students' computational thinking skills? **Dr Wahyudi-SEAMOLEC**

What are some practical tips or best practices for assessing and evaluating students' progress in developing computational thinking skills within the Visible Thinking framework? **Dr Uk and Dr Nisakorn-KKU**

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What is the student and teacher perceptions of the material used in your example/worksheet?
All speakers

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