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The Ninth Asian Symposium on Programming Languages and Systems (APLAS 2011)

The First International Conference on Certified Programs and Proofs (CPP 2011)
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OVERVIEW

APLAS, the Ninth Asian Symposium on Programming Languages and Systems aims at stimulating programming language research by providing a forum for the presentation of latest results and the exchange of ideas in topics concerned with programming languages and systems. APLAS is based in Asia, but is an international forum that serves the worldwide programming language community.

APLAS is sponsored by the Asian Association for Foundation of Software (AAFS) founded by Asian researchers in cooperation with many researchers from Europe and the USA. The past APLAS symposiums were successfully held in Shanghai (‘10), Seoul (‘09), Bangalore (‘08), Singapore (‘07), Sydney (‘06), Tsukuba (‘05), Taipei (‘04) and Beijing (‘03) after three informal workshops held in Shanghai (‘02), Daejeon (‘01) and Singapore (‘00). Proceedings of the past symposia were published in Springer-Verlag’s LNCS 6461, 5904, 5356, 4807, 4279, 3780, 3302, and 2895.

The 2011 edition is held at Kenting, a seaside resort in Southern Taiwan. APLAS 2011 is co-located with CPP 2011.

CPP, the First International Conference on Certified Programs and Proofs. CPP is a new international forum on theoretical and practical topics in all areas, including computer science, mathematics, and education, that consider certification as an essential paradigm for their work. Certification here means formal, mechanized verification of some sort, preferably with production of independently checkable certificates. We accept papers on topics that fit under this rubric, such as the development of certified or certifying programs, certified mathematical theories, and languages and tools for certified programming. The topics also include new program logics, type systems, and semantics for certified code, new automated or interactive tools and provers for certification, and original teaching material based on a proof assistant.
INVITED SPEAKERS

Monday (Dec. 5): APLAS Day 1
09:00 - Sriram Rajamani. (Microsoft Research India)
10:00 Program Analysis and Machine Learning: A Win-Win Deal.

Tuesday (6 Dec): APLAS Day 2
09:00 - Ranjit Jhala. (UC San Diego)
10:00 Software Verification with Liquid Types.

Wednesday (7 Dec): APLAS Day 3 + CPP Day 1
09:00 - Nikolaj Bjørner. (Microsoft Research),
10:00 Engineering Theories with Z3.
14:00- Peter O'Hearn. (Queen Mary, University of London)
15:00 Algebra, Logic, Locality, Concurrency.

Thursday (Dec. 8): CPP Day 2
09:00 - Vladimir Voevodsky. (Institute for Advanced Study)
10:00 Univalent Semantics of Constructive Type Theories.

Friday (Dec. 9): CPP Day 3
09:00 - Andrew W. Appel. (Princeton University)
10:00 VeriSmall: Verified Smallfoot Shape Analysis.

TUTORIALS

Sunday (Dec. 4): Tutorials (Meeting Room 103, 1F)
09:00 - 12:00 Tutorial 1
12:00 - 14:00 Lunch (on your own)
14:00 - 17:00 Tutorial 2
Monday (Dec. 5): APLAS Day 1

- 08:45 - 09:00 **APLAS Opening (Banquet Hall I, 1F)**
- 09:00 - 10:00 APLAS Invited talk
  - Chair: Hongseok Yang
- 10:00 - 10:30 Coffee break
- 10:30 - 12:30 APLAS Session 1 — Program Analysis.
  - Chair: Bow-Yaw Wang
  - David Monniaux and Martin Bodin. Modular Abstractions of Reactive Nodes using Disjunctive Invariants.
  - Thao Dang and Thomas Martin Gawlitza. Time Elapse over Template Polyhedra in Polynomial Time through Max-Strategy Iteration.
  - Fernando Saenz-Perez. A Deductive Database with Datalog and SQL Query Languages.
- 12:30 - 14:00 Lunch break
- 14:00 - 15:30 APLAS Session 2 — Functional Programming.
  - Chair: Atsushi Igarashi
  - Dmitriy Traytel, Stefan Berghofer and Tobias Nipkow. Extending Hindley-Milner Type Inference with Coercive Subtyping.
  - Yuichiro Kokaji and Yukiyoshi Kameyama. Polymorphic Multi-Stage Language with Control Effects.
- 15:30 - 16:00 Coffee break
- 16:00 - 17:30 APLAS Session 3 — Compiler
  - Chair: Wei-Ngan Chin
  - Zhen Cao, Yuan Dong and Shengyuan Wang. Compiler Backend Generation for Application Specific Instruction Set Processors.
  - Yulei Sui, Sen Ye, Jingling Xue and Pen-Chung Yew. SPAS: Scalable Path-Sensitive Pointer Analysis on Full-Sparse SSA.
Tuesday (Dec. 6): APLAS Day 2

- 09:00 - 10:00 APLAS Invited talk
  o Ranjit Jhala. Software Verification with Liquid Types.
  o Chair: Kazunori Ueda

- 10:00 - 10:30 Coffee break

- 10:30 - 12:30 APLAS Session 4 — Concurrency 1
  o Chair: Ranjit Jhala
  o Alexander Malkis and Laurent Mauborgne. On the Strength of Owicki-Gries for Resources.
  o Ashutosh Gupta, Corneliu Popeea and Andrey Rybalchenko. Solving Recursion-Free Horn Clauses over LI+UIF.
  o Akimasa Morihata. Macro Tree Transformations of Linear Size Increase Achieve Cost-optimal Parallelism.
  o Jonas Magazinius, Aslan Askarov and Andrei Sabelfeld. Decentralized Delimited Release.

- 12:30 - 14:00 Lunch break

- 14:00 - 15:30 APLAS Session 5 — Concurrency 2.
  o Chair: Sriram Rajamani
  o Elvira Albert, Puri Arenas, Samir Genaim, Miguel Gomez-Zamalloa and German Puebla. Cost Analysis of Concurrent OO Programs.
  o Ana Milanova and Wei Huang. Static Object Race Detection.

- 15:30 - 16:00 Coffee break

- 16:00 - 16:45 APLAS Poster session

- 16:45 - 17:45 APLAS Session 6 — Semantics.
  o Chair: Masahito Hasegawa
Wednesday (Dec. 7): APLAS Day 3 + CPP Day 1

- 08:45 – 09:00 **CPP Opening (Banquet Hall I, 1F)**
- 09:00 - 10:00 APLAS+CPP Invited talk
  - Chair: Zhong Shao
- 10:00 - 10:30 **Coffee break**
- 10:30 - 12:30 APLAS Session 7 — Certification and logic
  - Chair: Sukyoung Ryu
  - Patrick Baillot. Elementary linear logic revisited for polynomial time and an exponential time hierarchy.
  - Keiko Nakata, Tarmo Uustalu and Marc Bezem. A Proof Pearl with the Fan Theorem and Bar Induction: Walking through Infinite Trees with Mixed Induction and Coinduction.
- 12:30 - 14:00 **Lunch break**
- 14:00 - 15:00 APLAS+CPP Invited talk
  - Chair: Hongseok Yang
- 15:00 - 16:00 CPP Session 1 - Logic and Types
  - Chair: Yasuhiko Minamide
- 16:00 - 16:30 **Coffee break**
- 16:30 - 17:30 CPP Session 2 - Certificates
  - Chair: Kwankeun Yi
  - Luis Caires, Frank Pfenning, and Bernardo Toninho. Proof-Carrying Code in a Session-Typed Process Calculus
- 17:30 - 18:15 CPP Panel Discussion
  - Moderator: Dale Miller
- 19:00 - 21:00 **APLAS+CPP Banquet (Banquet Hall- Area-II, 1F)**
Thursday (Dec. 8): CPP Day 2

- 09:00 - 10:00 CPP Invited talk
  - Vladimir Voevodsky. Univalent Semantics of Constructive Type Theories.
  - Chair: Jean-Pierre Jouannaud
- 10:00 - 10:30 Coffee break
- 10:30 - 12:30 CPP Session 3 – Formalizations
  - Chair: Georges Gonthier
  - Cezary Kaliszyk and Henk Barendregt. Reasoning about Constants in Nominal Isabelle, or how to Formalize the Second Fixed Point Theorem.
  - Thierry Coquand and Vincent Siles. A Decision Procedure for Regular Expression Equivalence in Type Theory.
- 12:30 - 14:00 Lunch break
- 14:00 - 16:00 CPP Session 4 — Proof Assistants
  - Chair: Yih-Kuen Tsay
  - Michael Armand, Germain Faure, Benjamin Gregoire, Chantal Keller, Laurent Thery, and Benjamin Werner. A Modular Integration of SAT/SMT Solvers to Coq through Proof Witnesses.
  - Thomas Braibant and Damien Pous. Tactics for Reasoning modulo AC in Coq.
  - Sascha Bohme, Anthony Fox, Thomas Sewell, and Tjark Weber. Reconstruction of Z3's Bit-Vector Proofs in HOL4 and Isabelle/HOL.
- 16:00 - 16:30 Coffee break
- 16:30 - 17:30 CPP Session 5 — Teaching with PA's
  - Chair: Jean-Francois Monin
  - Martin Henz and Aquinas Hobor. Teaching Experience: Logic and Formal Methods with Coq.
  - Wolfram Kahl. The Teaching Tool CalcCheck: A Proof Checker for Gries and Schneider's "Logical Approach to Discrete Math."
Friday (Dec. 9): CPP Day 3

- 09:00 - 10:00 CPP Invited talk
  o Andrew Appel: VeriSmall: Verified Smallfoot Shape Analysis.
  o Chair: Tyng-Ruey Chuang

- 10:00 - 10:30 Coffee break

- 10:30 - 12:30 CPP Session 6 — Programming Languages
  o Chair: Shin-Sheng Mu
  o Jinjiang Lei and Zongyan Qiu. Verification of Scalable Synchronous Queue.
  o Jieung Kim and Sukyoung Ryu. Coq Mechanization of Featherweight Fortress with Multiple Dispatch and Multiple Inheritance.
  o Michael Backes, Catalin Hritcu, and Thorsten Tarrach. Automatically Verifying Typing Constraints for a Data Processing Language.

- 12:30 - 14:00 Lunch break

- 14:00 - 15:30 CPP Session 7 — Hardware Certification
  o Chair: Andrew Appel
  o Xiaomu Shi, Jean-Francois Monin, Frederic Tuong, and Frederic Blanqui. First Steps Towards the Certification of an ARM Simulator Using CompCert.

- 15:30 - 16:00 Coffee break

- 16:00 - 17:00 CPP Session 8 — Miscellaneous
  o Chair: Dale Miller
  o Mathieu Boespflug, Maxime Denes, and Benjamin Gregoire. Full Reduction at Full Throttle.

- 17:00 - 17:15 CPP Session 9 — Proof Pearls
  o Chair: Dale Miller

- 17:15 - 17:30 Closing
POSTERS

Tuesday (Dec. 6): APLAS Day 2

16:00 - 16:45 APLAS Poster session

- Simulation with guaranteed accuracy using hybrid system modeling language HydLa
  - Presenter: Kakeru Sakuraba
  - Authors: Kakeru Sakuraba, Kazunori Ueda, Hiroshi Hosobe, Shun Shibuya, Shouta Matsumoto
- Type-Based Analysis of Safe Resource Deallocation for Shared-Memory Concurrency
  - Presenter: Ryota Fukuda
  - Authors: Ryota Fukuda, Kohei Suenaga and Atsushi Igarashi
- Programming with Infinitesimals: A While-Language for Hybrid System Modeling
  - Presenter: Kohei Suenaga
  - Authors: Kohei Suenaga and Ichiro Hasuo
- Solving the Dutch National Flag Problem via Datatype Ornamentation
  - Presenter: Hsiang-Shang Ko
- Towards Incremental Resource Usage Analysis
  - Presenter: Germán Puebla
  - Authors: Elvira Albert, Jesús Correas, Germán Puebla and Guillermo Roman-Diez
- A Modular Approach to Diagram Transformation via Dependently-Typed Programming using the RATH Agda Libraries
  - Presenter: Wolfram Kahl
- HyperLMNtal: An Extension of a Hierarchical Graph Rewriting Model
  - Presenter: Manabu Meguro
  - Authors: Manabu Meguro, Seiji Ogawa and Kazunori Ueda
Map of Taiwan from Wikitravel
The APLAS/CPP 2011 venue is at 1st floor.  
(Hotel lobby is at 2nd floor.)
Local tours arranged by the hotel

Tours registration at Concierge/ 2F. Details are in the next page.
1. **Half-Day Tour (Minimum 4 persons)**, NT$380 (adult) NT$250 (child)

   **Morning Tour (09:00 – 12:00):** Reservation before 21:00 on the previous day.
   - **Route A (black line):** Howard Kenting – Sail Rock – Coastal Tropical Forest – Banana Bay – Sand Island-Oluanpi Reef /Lighthouse – Lungpan Park – Fengchueisha – Chuhuo Nature Fire – Hengchun East Gate – Howard Kenting

   **Afternoon Tour (14:00 – 17:00):** Reservation before 10:00 on the departure day.
   - **Route B (dash line):** Howard Kenting – Kenting National Park Visitor’s Center – Guanshan – Maobitou – Houbihu Harbor – Howard Kenting

2. **Destination Tour (Transport provided)**

   **Time 08:30-11:00**
   - **Destination A:** Kenting Forest Recreation Area – Adult: NT$220 Child: NT$100
   - **Destination B:** Sheding Park – Adult: NT$220 Child: NT$100
   - **Destination C:** Chia Le Shuei – Adult: NT$280 Child: NT$150

3. **Chartered Tour (One-Day Tour/ Route C + D) NT$5,500/ 7-person van or NT$9,000/ 20-person bus.** Reservation has to be made two days before the departure.
   - **Route C (09:00 -12:00):** Howard Kenting – Hengchun Ancient City – Cikong Waterfalls –Suspension Bridge – White Fig Park - Fengchueisha – Longzaipu Prairie – Sail Rock – Howard Kenting
   - **Break & Lunch at Howard Kenting (12:00-14:00) on your own.**
   - **Route D (14:00 -17:00):** Howard Kenting – Checheng Fuan Temple (Taiwan largest temple for earth deity) – Shihmen Old Battle Site – Mutan Reservoir – West Coast Longluan Lake – Howard Kenting
QUICK FACTS

- **Time**: Eight hours ahead of GMT.

- **Telephone**: The International Dialing Code for Taiwan is +886. For the International call from Taiwan, dial

  002+National code +Area Code + Tel#

- **Bank Service & Currency**: One US dollar is about 30 (New) Taiwan Dollars (TWD), and one euro is about 40 TWD. TWD is sometimes written as NT$ or NT Dollar meaning the New Taiwan Dollar.

  The POST office is located at No. 332, Kenting Rd., Hengchun, Pingtung County, Taiwan. for Postal Service: (08)8861-442; for Banking Service:(08)8861-442
  
  Business Hours: Monday to Friday
  
  Postal Business Hours:(08:30-12:30 13:00-16:30)
  
  Banking Service Hours:(08:30-12:30 13:00-16:30)

  For more ATM services, please see Kenting street Map at page 18

- **Electricity Supply**: The power supply in Taiwan is 110/220 V, 60 Hz. Electrical sockets are two parallel flat prongs - "American" type. Participants are advised to bring adaptor plugs.

- **Water**: Tap water is not drinkable.

- **Tipping**: Not compulsory but is customary. Some restaurants will ask for 10% tip which is included in the receipt.

- **Language Notes**:

  1. Thank you. → Xie xie. [謝謝]
  2. How are you? → Ni hao ma? [你好嗎?]
  3. Do you speak English? → Ni shuo ying-wen ma? [你說英文嗎?]
  4. Sorry. → Phai-Se [不好意思]
  5. See you. → Zai jian [再見]

More language notes for transportation purpose, please see the next page.
1. Could you tell me where I can take the Kenting Express to Zuoying HSR station?

請問到高鐵左營站的墾丁快線在哪裡搭車?

2. I need to take a bus to Zuoying HSR station. Could you show me where the bus station is?

我需要搭車到高鐵左營站，請問在哪裡搭公車?

3. I need to take a bus to Kaohsiung Rapid Transit. Could you show me where the bus station is?

我需要搭車到高雄捷運站，請問在哪裡搭公車?

4. Please take me to Kaohsiung International Airport.

請載我到高雄小港機場.

5. Please take me to Taipei Metro.

請載我到台北捷運站.

6. Please take me to Taoyuan International Airport.

請載我到桃園國際機場

7. Please take me to Taipei Songshan Aiport.

請載我到松山機場.
LOCAL ATTRACTIONS

Kenting National Park Visitor Center

“Located at Tanzihwan, Kenting National Park Headquarters consists of the Administration Department and the Visitor’s Center. The Visitor’s Center provides inquiry services, video presentations, guided tours, and exhibitions. “


Wikitravel Information/ Kenting National Park

“KenTing National Forest Recreation Area is the only one tropical botanical garden in Taiwan and also one of the top 10 tropical botanical gardens in the world. Currently, there are thousands of tropical plants and adequate resources of butterflies, birds, insects and reptiles. Every autumn and winter, plenty of migratory birds including Chinese goshawks, oriental honey-buzzards, cattle egrets, falco subbuteos, brown shrikes and gray-faced buzzards roost at this place. It brings the original forest a more vivid ambience."  


Restaurants with some vegetarian services

1. Smokey Joe/ 冒煙的喬- American & Mexican style foods/ Pub/:  
   2 Kenting Road
2. CloudHome Thai Restaurant/ 雲鄉: 19 Kenting Road
3. West Door Koah-pau / 西門口刈包(Taiwanese hamburger):  
   21 Kenting Road
4. MamBo Thai Restaurant/ 曼波泰式料理: 46 Kenting Road
5. Sa Wa Di Ka Thai Restaurant/ 沙哇帝卡泰式風味:  
   189 Kenting Road
6. Putri Bali/ 峇里公主南洋料理:  
   274 Kenting Road
7. Taiwanese Tea House/ 清心墾丁店:  
   324-2 Kenting Road
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