

International Problem Solving Workshop (MITACS)

July 16-20, 2012

International Focus Period

- A MITACS International Focus Period consists of a series of scientific events on diverse topics - all centered on a common theme that addresses key socio-economic issues of high provincial and federal priority.
- Advances in Network Analysis and its Applications
 1. Financial Networks and Risk Assessment (Toronto)
 2. Network Security and Cryptography (Toronto)
 3. Social Networks (Vancouver)
 4. Biological Networks and Systems Biology (Vancouver)
 5. Wireless and Mobile Computing (Ottawa)
 6. Internet and Network Economics (Vancouver)
 7. **International Problem Solving Workshop** (Vancouver)

International Problem Solving Workshop

- Open Problems from Five Research Themes
 1. Mobile Robots
 2. Directional Antennae
 3. Web Graphs
 4. Social Exchange Networks
 5. Stability of Financial Networks

Mobile Robots

- **Leszek A. Gasiene**c (U Liverpool),
- Adrian Kosowski (INRIA Bordeaux),
- Evangelos Kranakis (Carleton U),
- Danny Krizanc (Wesleyan U),
- Eduardo Pacheco (Carleton U),
- Najmeh Taleb (Carleton U)

Directional Antennae

- **Oscar Morales Ponce** (PDF, Carleton U),
- Stefan Dobrev (Slovak Academy of Sciences),
- Lata Narayanan (Concordia U),
- Jano Manuch (SFU),
- Jaroslav Opatrny (Concordia U),
- Laco Stacho (SFU),
- Fraser MacQuarie (Carleton U),
- Mohsen Eftekhari Hesari (Concordia U)

Web Graphs

- **Anthony Bonato** (Ryerson U),
- David Gleich (Purdue U),
- Dieter Mitsche (Ryerson U),
- Stephen Young (UCSD),
- Myunghwan Kim (Stanford U),
- Amanda Tian (York U)

Social Exchange Networks

- **George Karakostas** (MacMaster U),
- Jochen Koennemann (U Waterloo),
- Kostis Georgiou (U Waterloo),
- Zuzanna Stamirowska (Ecole Polytechnique, Paris)

Stability of Financial Networks

- **Tom Hurd** (MacMaster U),
- **Matheus Grasselli** (MacMaster U),
- **Huibin Cheng** (MacMaster),
- **Quentin Shao** (MacMaster U),
- **Davide Cellai** (U of Limerick),
- **Sergey Melnik** (U of Limerick),
- **Lionel Cassier** (Ecole Polytechnique, Paris).

Schedule

- **Every Day: Monday to Friday**
 - 09:00 - 12:00 Individual Working Group Meetings
 - 12:00 - 13:30 Lunch
 - 13:30 - 16:30 Individual Working Group Meetings
 - 16:30 - 17:30 Joint Meeting: Brief Announcements
- **Monday**
 - 09:00 - 12:00 Joint Meeting: Problem Presentations
- **Wednesday**
 - 18:30 - 21:30 BBQ Totem Park Infill Residence -
Humlesome Unit Lounge 2525 West Mall, Vancouver, BC
- **Friday**
 - 16:30 - 17:30 Joint Meeting: Final Announcements

Essentials

- **Venue:** Irving K. Barber Centre, **Hotel:** Totem Park Residence, **Cafeteria:** Totem Park
- Internet
 - In Room: need to have own ethernet cable
 - In working rooms: Wi-fi
- Participants in each room need to leave by 5:30 pm as the venue has other events booked in the space after that time.
- Meals
 - Breakfast (Cafeteria)
 - Coffee Breaks *On your own*
 - Lunch (~~Cafeteria~~) *On your own*
 - Dinner (on your own)

Problem Presentations

July 16-20, 2012

Problem Presentations

- **Leszek A. Gasieniec** (U Liverpool)
- **Oscar Morales Ponce** (PDF, Carleton U)
- **Anthony Bonato** (Ryerson U)
- **George Karakostas** (MacMaster U)
- **Tom Hurd** (MacMaster U)

Related Literature

- See Workshop Web Page