

NOLCOS in Newcastle, Australia — 2022

October 31, 2017



Newcastle is Australia's seventh largest city with a compact city centre adjacent to world-class beaches; ideal to observe marine wildlife or for surfing. 150km north of Sydney on the traditional lands of the Awabakal people and at the mouth of the Hunter River, Newcastle is the gateway to the Hunter Valley; one of Australia's premier wine-growing regions. It has waterfront cafes and restaurants, over 1000 accommodation rooms within 15 minutes walk of the conference venues, and a free city bus loop. The city centre is currently undergoing a major revitalization including a new University of Newcastle presence, light rail, and significant "smart-city" infrastructure.

At the heart of Newcastle's CBD is the University of Newcastle's futuristic NewSpace building (opened in 2017) and the historic art deco city town hall right next door. These are the proposed venues to host this 200–300 delegate symposium, including facilities for several parallel sessions, appropriate rooms for plenary and semi-plenary lectures, and boardrooms for committee meetings.

The Newcastle CBD can be reached from Sydney Airport by road in 2 hours (shuttles with large capacity are available), conveniently by train within 3 hours, or via Brisbane or Melbourne international airports in combination with Newcastle's local domestic airport (each 1h flight time).



Nonlinear control in Australia

In the years 2012–2016 Scopus reports 274 documents published in IFAC outlets with an Australian affiliation. For comparison with previous NOLCOS hosting countries, Germany has 1425, France 1925, USA 1400, Italy 858, Russian Federation 687, The Netherlands 423, South Africa 114. Australia has an active control community (linear and nonlinear) with its own domestic control conference: ANZCC (with New Zealand, formerly AuCC).

The University of Newcastle has been home to significant research centres in systems and control since the 1970s. The Australian National University and The University of Melbourne also host sizeable research groups in systems and control.

The proposers below are actively involved in IFAC and include two IFAC Fellows, a member of the IFAC Council, an IFAC Advisor, an Editor and Associate Editor of *Automatica*, an IFAC Technical Committee Chair (Marine Systems), prior NOLCOS and IFAC World Congress plenary speakers, and members of the Technical Committee on Non-Linear Control Systems.

Proposers

- †Chris Kellett, University of Newcastle
- †Björn Rüffer, University of Newcastle
- †Steve Weller, University of Newcastle
- †Adrian Wills, University of Newcastle
- Regina Burachik, University of South Australia
- Alejandro Donaire, Queensland University of Technology
- Peter Dower, University of Melbourne
- Vladimir Gaitsgory, Macquarie University
- Robert Mahony, Australian National University
- Ian Manchester, University of Sydney
- Iven Mareels, University of Melbourne
- Dragan Nešić, University of Melbourne
- Tristan Perez, Queensland University of Technology
- Ian Petersen, Australian National University
- Vera Roshchina, Royal Melbourne Institute of Technology
- Jochen Trumpf, Australian National University
- Valery Ugrinovskii, University of New South Wales

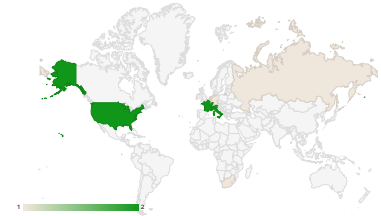
†Local arrangements



Geographical distribution of previous symposia

Previous NOLCOS venues in reverse chronological order: Vienna, Austria (2019), Monterey, CA, USA (2016), Toulouse, France (2013), Bologna, Italy (2010), Pretoria, South Africa (2007), Stuttgart, Germany (2004), St. Petersburg, Russia (2001), Enschede, The Netherlands (1998), Tahoe City, CA, USA (1995), Bordeaux, France (1992), Capri, Italy (1989).

If granted, this will be the first time NOLCOS is hosted in the Asia-Pacific region, and only the second time to be held in the Southern Hemisphere.



Tentative budget

The budget is based on three conference days, 220 participants, and cost items are per person. Catering will include morning and afternoon coffee with snacks. The receptions include all drinks and nibbles. The conference dinner includes all drinks. The conference pack refers to an IFAC/NOLCOS branded bag containing name badge+lanyard, pen, notepad, some sightseeing information, as well as a printed booklet with abstracts. The subsidy items contain a contribution towards airfare and accommodation for plenary and semi-plenary speakers, as well as a reduction of the registration fee to AU\$350 / US\$280 / €240 for students (assuming 20% of participants will be students). The administrative cost is for manuscript and registration handling via papercept.

We propose to make accepted papers available online through the conference website only (and possibly IFAC-PapersOnLine), but not on a CD/USB drive or in print form. The conference venue will provide free WiFi and hosting of the conference site can be facilitated through CARMA, one of the University of Newcastle's priority research centres. CARMA will also contribute in-kind local administrative support.

Cost per participant in AU\$	
Item	Cost PP
Venue	\$86
Morning coffee	\$30
Afternoon coffee	\$30
Opening reception	\$50
Conference dinner	\$110
Closing reception	\$50
Conference pack	\$35
Administrative	\$43
Subsidy for Invitees	\$66
Subsidy for Students	\$50
TOTAL	AU\$ 550
equiv.	US\$ 440
equiv.	€ 375

Accommodation and Dining

Local accommodation ranges from \$30–\$80 (backpacker accommodation from single dorm to double private), over \$110 (small hotels), to \$270 (premium hotels) per (double) room per night. There are about 22 hotels in walking distance to the conference venues, along with about 35 restaurants (\$10–\$40 for a dinner) and 30 cafes in close proximity.

