



**Submission Data for 2020-2021 CORE conference Ranking process
Automated Software Engineering Conference**

John Grundy

Conference Details

Conference

Title: Automated Software Engineering Conference
Acronym : ASE
Rank: A

Requested Rank

Rank: A*

Recent Years

Proceedings Publishing Style

Proceedings Publishing: self-contained
Link to most recent proceedings: <https://ieeexplore.ieee.org/xpl/conhome/8949433/proceeding>
Further details: ASE proceedings published by IEEE and ACM alternate years
Contains -full 10 page research and experience papers -4-5 page demo, NIER, Doctoral Symposium papers -2 page late breaking result poster papers
Different kinds papers clearly delineated in proceedings

Most Recent Years

Most Recent Year

Year: 2019
URL: <https://2019.ase-conferences.org/>
Location: San Diego, USA
Papers submitted: 448
Papers published: 91
Acceptance rate: 20
Source for numbers: <https://ieeexplore.ieee.org/document/8952558>

General Chairs

Name: Tom Zimmerman Affiliation: MS Research Gender: M H Index: 65 GScholar url: https://scholar.google.com/citations?hl=en&user=5zvbpo0AAAAJ DBLP url:

Program Chairs

Name: Julia Lawall
Affiliation: Inria
Gender: F
H Index: 38
GScholar url: <https://scholar.google.com/citations?hl=en&user=ufr0tvAAAAAJ>
DBLP url:

Name: Darko Marinov
Affiliation: UIUC
Gender: M
H Index: 47
GScholar url: <https://scholar.google.com/citations?user=x60IBq4AAAAJ&hl=en>
DBLP url:

Second Most Recent Year

Year: 2018
URL: <http://www.ase2018.com/>
Location: Corum, Montpellier, France
Papers submitted: 386
Papers published: 80
Acceptance rate: 21
Source for numbers: <https://dl.acm.org/doi/proceedings/10.1145/3238147>

General Chairs

Name: Marianne Huchard
Affiliation: INRIA
Gender: F
H Index: 26
GScholar url: <https://scholar.google.com/citations?hl=en&user=k3kJUyIAAAAAJ>
DBLP url:

Program Chairs

Name: Gordon Fraser
Affiliation: Uni Passau
Gender: M
H Index: 42
GScholar url: <https://scholar.google.fr/citations?hl=en&user=PLp0pawAAAAJ>
DBLP url:

Third Most Recent Year

Year: 2017
URL: <http://ase-conferences.org/ase/past/ase2017/index.html>
Location: University of Illinois at Urbana-Champaign
Papers submitted: 388
Papers published: 88
Acceptance rate: 23
Source for numbers: <https://ieeexplore.ieee.org/xpl/conhome/8106906/proceeding>

General Chairs

Name: Grigore Rosu
Affiliation: UIUC
Gender: M
H Index: 59
GScholar url: <https://scholar.google.fr/citations?hl=en&user=yxpqbdQAAAAJ>
DBLP url:

Program Chairs

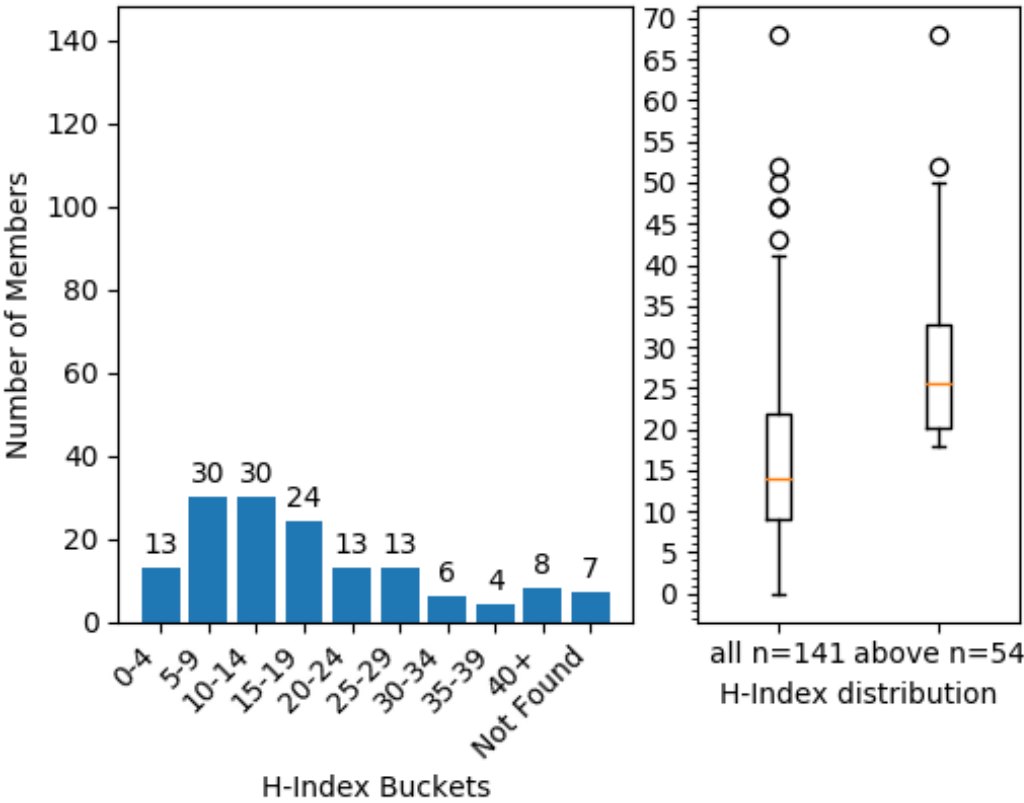
Name: Massimiliano Di Penta Affiliation: Uni Sannio, Italy Gender: M H Index: 72 GScholar url: https://scholar.google.fr/citations?hl=en&user=j6ucy0AAAAAJ DBLP url:
Name: Tien N. Nguyen Affiliation: Uni Texas, Dallas Gender: M H Index: 45 GScholar url: https://scholar.google.fr/citations?hl=en&user=l4Qh0VoAAAAAJ DBLP url:

Policies

Chair Selection: Chosen by vote of steering committee
 Policy name: ASE Charter
 Policy url: <http://ase-conferences.org/Charter.html>

(Senior) Program Committee

Link to (s)pc: <https://2019.ase-conferences.org/committee/ase-2019-papers-program-committee>
 File: http://portal.core.edu.au/core/media/conf_submissions_spc_file/Program_Committee-hotcrp_iWcQ3RM.csv
 H-index plot: http://portal.core.edu.au/core/media/conf_submissions_hindex_plots/hindex_buckets_1202.png
 Information Contained within this graph is derived using the Elsevier Scopus Database 2021.



Data and Metrics

Google Scholar Metrics

Sub-category url: https://scholar.google.com/citations?view_op=top_venues&hl=en&vq=eng_softwaresystems
 Position in sub-category: 9
 Image of top 20: http://portal.core.edu.au/core/media/changes_h5/higherrank1202_gscholar_minh5.png

	Publication	h5-index	h5-median
1.	ACM/IEEE International Conference on Software Engineering	74	111
2.	Journal of Systems and Software	61	90
3.	Information and Software Technology	59	90
4.	ACM SIGSOFT International Symposium on Foundations of Software Engineering	53	78
5.	Empirical Software Engineering	53	75
6.	IEEE Transactions on Software Engineering	52	77
7.	ACM SIGPLAN-SIGACT Symposium on Principles of Programming Languages (POPL)	48	76
8.	ACM SIGPLAN Conference on Programming Language Design and Implementation (PLDI)	46	78
9.	IEEE/ACM International Conference on Automated Software Engineering (ASE)	45	75
10.	IEEE Software	44	90
11.	Symposium on Operating Systems Principles	42	77
12.	Software & Systems Modeling	41	55
13.	Mining Software Repositories	40	52
14.	International Conference on Software Analysis, Evolution, and Reengineering (SANER)	40	48
15.	International Symposium on Software Testing and Analysis	36	61

h5-index for this conference: 45

ACM Metrics

Is an ACM sponsored conference: True
 Providing ACM Stats: True

ACM Statistics

Downloads in last 12 months: 54227
 Average citations per article: 10
 Average downloads per article: 222

ACM Most frequently publishing

Name: Jun Sun Paper Count: 9 Google Scholar h-index: 32 Gscholar url: https://scholar.google.com/citations?user=DVsEyn0AAAAJ&hl=en&oi=ao
Name: David Lo Paper Count: 9 Google Scholar h-index: 64 Gscholar url: https://scholar.google.com/citations?hl=en&user=Ra4bt-oAAAAJ
Name: Zhenchang Xing Paper Count: 9 Google Scholar h-index: 31 Gscholar url: https://scholar.google.com/citations?hl=en&user=0vCxuH4AAAAJ
Name: Xin Xia Paper Count: 7 Google Scholar h-index: 35 Gscholar url: https://scholar.google.com/citations?user=XSZRxEAAAAJ&hl=en
Name: Yu Jiang Paper Count: 7 Google Scholar h-index: 19 Gscholar url: https://scholar.google.com/citations?user=5AJPdKsAAAAJ&hl=ja
Name: Chanchal Kumar Roy Paper Count: 6 Google Scholar h-index: 37 Gscholar url: https://scholar.google.com/citations?user=vHHWD04AAAAJ&hl=en
Name: Lingming Zhang Paper Count: 6 Google Scholar h-index: 29 Gscholar url: https://scholar.google.com/citations?user=zzbWQE4AAAAJ&hl=en
Name: Denys Poshyvanyk Paper Count: 5 Google Scholar h-index: 65 Gscholar url: https://scholar.google.com/citations?hl=en&user=gyLFsOIAAAAAJ
Name: Darko Marinov Paper Count: 5 Google Scholar h-index: 47 Gscholar url: https://scholar.google.com/citations?hl=en&user=x60IBq4AAAAJ
Name: S. C. Cheung Paper Count: 5 Google Scholar h-index: 41 Gscholar url: https://scholar.google.com/citations?hl=en&user=5RIgb3wAAAAJ

Aminer Rank

Aminer rank: 4

Aminer name: International Conference on Automated Software Engineering

Acronym / shortname: ASE

h-5 index: 44

CCF level: A

THU level: A

Top Aminer Cites: http://portal.core.edu.au/core/media/conf_submissions_citations/higherrank1202_aminer_top_cite.png

1	Automated Test Input Generation for Android: Are We There Yet? (E) Shauvik Roy Choudhary, Alessandra Gorla, Alessandro Orso (2015)	Cited by 358
2	Deep learning code fragments for code clone detection Martin White, Michele Tufano, Christopher Vendome, Denys Poshyvanyk (2016)	Cited by 225
3	Repairing Programs with Semantic Code Search (T) Yalin Ke, Kathryn T. Stolee, Claire Le Goues, Yuriy Brun (2015)	Cited by 168
4	Usage, costs, and benefits of continuous integration in open-source projects Michael Hilton, Timothy Tunnell, Kai Huang, Darko Marinov, Danny Dig (2016)	Cited by 164
5	DeepGauge: multi-granularity testing criteria for deep learning systems Lei Ma, Felix Juefei-Xu, Fuyuan Zhang, Jiyuan Sun, Minhui Xue, Bo Li, Chunyang Chen, Ting Su, Li Li, Yang Liu, Jianjun Zhao, Yadong Wang (2018)	Cited by 163
6	Learn&Fuzz: Machine Learning for Input Fuzzing Patrice Godefroid, Hila Peleg, Rishabh Singh (2017)	Cited by 162
7	Do Automatically Generated Unit Tests Find Real Faults? An Empirical Study of Effectiveness and Challenges (T) Sina Shamshiri, René Just, José Miguel Rojas, Gordon Fraser, Phil McMinn, Andrea Arcuri	Cited by 124

Other Rankings

Not aware of any other Rankings
Conferences in area:

Top People Publishing Here

Not Providing Top People Publishing Here

Where People Publish

Top (Senior) Program Committee Members

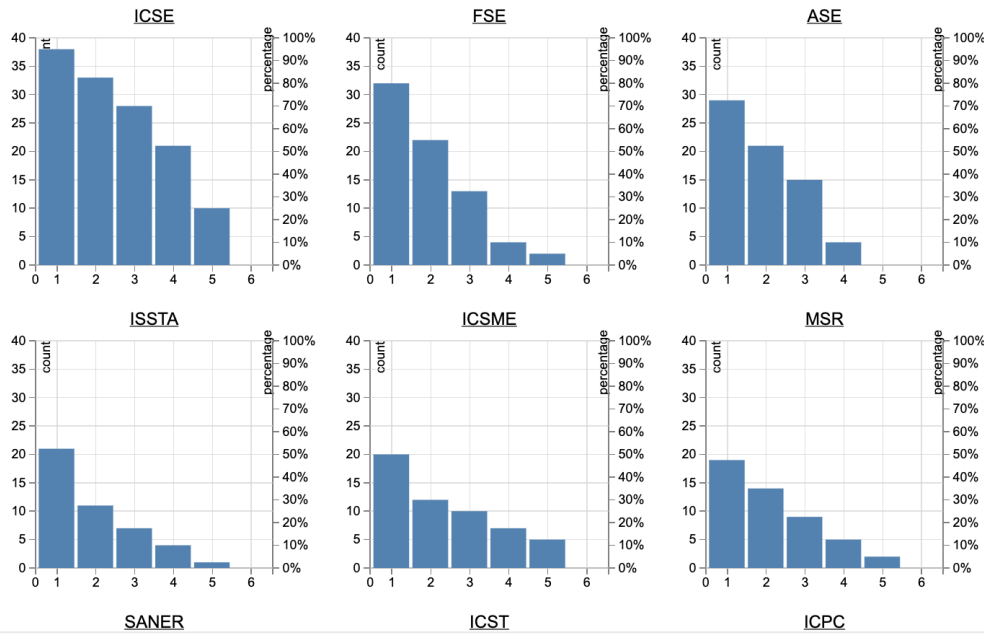
Generated Report Name: conf_submissions_top_spc/higherrank1202_top_spc.csv

WPP Report: http://portal.core.edu.au/core/media/conf_rank_report/higherrank1202_spc_report.txt

Graphs: http://portal.core.edu.au/core/media/conf_rank_graphs/higherrank1202_spc_graph.png

Repeat year publishing

These graphs show numbers of people publishing in multiple years. Each column shows number of people in that many or more years. The number publishing in a specific number of years can be seen by the difference with respect to the previous column.



Reference item: \ 3. International Conference on Automated Software Engineering (ASE)

This conference was published at 82 times by 29 of 40 experts in the last 5 years.

The experts that publish at this conference are: Eric Bodden(5), Marianne Huchard(1), Alexander Serebrenik(1), Paul Grnbacher(5), Abhik Roychoudhury(4), Andrea Zisman(1), Fabio Palomba(3), Christoph Treude(1), Darko Marinov(6), Massimiliano Di Penta(4), Gregory M. Kapfhammer(1), Yijun Yu(4), Wing Kwong Chan(3), Jianjun Zhao(10), Shahar Maoz(4), Alex Groce(3), Lingxiao Jiang(3), Andreas Zeller(5), Tegawend F. Bissyand(3), Gabriele Bavota(3), Sven Apel(5), Grigore Rosu(1), Alberto Bacchelli(2), Yuriy Brun(3), Jacques Klein(2), Michael Pradel(4), Christian Kstner(4), Denys Poshyvanyk(7), Sarfraz Khurshid(2)

In 2015, there were 18 publications by 14 experts: Eric Bodden, Shahar Maoz, Alex Groce, Paul Grnbacher, Massimiliano Di Penta, Gregory M. Kapfhammer, Sven Apel, Yuriy Brun, Jacques Klein, Jianjun Zhao, Christian Kstner, Darko Marinov, Denys Poshyvanyk, Tegawend F. Bissyand

In 2016, there were 17 publications by 17 experts: Marianne Huchard, Gabriele Bavota, Fabio Palomba, Shahar Maoz, Grigore Rosu, Alex Groce, Abhik Roychoudhury, Massimiliano Di Penta, Lingxiao Jiang, Andreas Zeller, Jacques Klein, Yijun Yu, Jianjun Zhao, Christian Kstner, Darko Marinov, Denys Poshyvanyk, Tegawend F. Bissyand

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In 2018, there were 14 publications by 12 experts: Gabriele Bavota, Fabio Palomba, Abhik Roychoudhury, Massimiliano Di Penta, Denys Poshyvanyk, Andreas Zeller, Jianjun Zhao, Wing Kwong Chan, Michael Pradel, Darko Marinov, Alberto Bacchelli, Sarfraz Khurshid

In 2019, there were 19 publications by 13 experts: Eric Bodden, Andrea Zisman, Shahar Maoz, Christoph Treude, Alex Groce, Yijun Yu, Lingxiao Jiang, Andreas Zeller, Wing Kwong Chan, Jianjun Zhao, Sven Apel, Abhik Roychoudhury, Tegawend F. Bissyand

29 out of the 40 experts published at this conference in 1 or more years

21 out of the 40 experts published at this conference in 2 or more years

15 out of the 40 experts published at this conference in 3 or more years

4 out of the 40 experts published at this conference in 4 or more years

Top People Report

Method of selection: From the journal re-ranking round - we com piled this list for SE journals

	name	h-index	gscholar url
Keyword:	John Mylopoulos	89	https://scholar.google.com/citations?user=mQ6mh20AAAAJ&hl=en
	Barry Boehm	82	https://scholar.google.com/citations?user=EyAD66UAAAAJ&hl=en
	Gerhard Fischer	70	https://scholar.google.ca/citations?user=NJSK64sAAAAJ&hl=en
	Anthony Finkelstein	60	https://scholar.google.com/citations?user=n8xuCVkAAAAJ&hl=en
	Ian Sommerville	57	https://scholar.google.com/citations?user=YkBQyNoAAAAJ&hl=en
	Alistair Sutcliffe	56	https://scholar.google.com/citations?user=lW7EB8kAAAAJ&hl=en
	Bashar Nuseibeh	56	https://scholar.google.com/citations?user=aUQ809gAAAAJ&hl=en
	Tim Menzies	54	https://scholar.google.com/citations?user=7htTUTgmLtUC&hl=en
	John C. Grundy	51	https://scholar.google.com/citations?user=bbEQGY8AAAAJ&hl=en
	Axel van Lamsweerde	40	https://scholar.google.com/citations?user=KhZnymAAAAJ&hl=en
	Michael R. Lyu	86	https://scholar.google.co.nz/citations?hl=en&user=uQnBgK0AAAAJ
	Gregg Roethermel	71	https://scholar.google.co.nz/citations?hl=en&user=7XjLO7wAAAAJ
	Massimiliano Di Penta	65	https://scholar.google.co.nz/citations?hl=en&user=j6ucyOAAAAAJ
	Christian KÄdstner	56	https://scholar.google.co.nz/citations?hl=en&user=PR-ZnJUAAAAAJ
	Paolo Tonella	55	https://scholar.google.co.nz/citations?hl=en&user=6n3gAUAAAAAJ
	Tim Menzies	54	https://scholar.google.co.nz/citations?hl=en&user=7htTUTgmLtUC
	Abhik Roychoudhury	44	https://scholar.google.co.nz/citations?hl=en&user=UxFWSJIAAAAAJ
	Tevfik Bultan	43	https://scholar.google.co.nz/citations?hl=en&user=eq4egiwAAAAAJ
	Sam Malek	41	https://scholar.google.co.nz/citations?hl=en&user=qrCVPOYAAAAAJ
	Atanas Rountev	41	https://scholar.google.co.nz/citations?hl=en&user=Y9Jw4lcAAAAAJ

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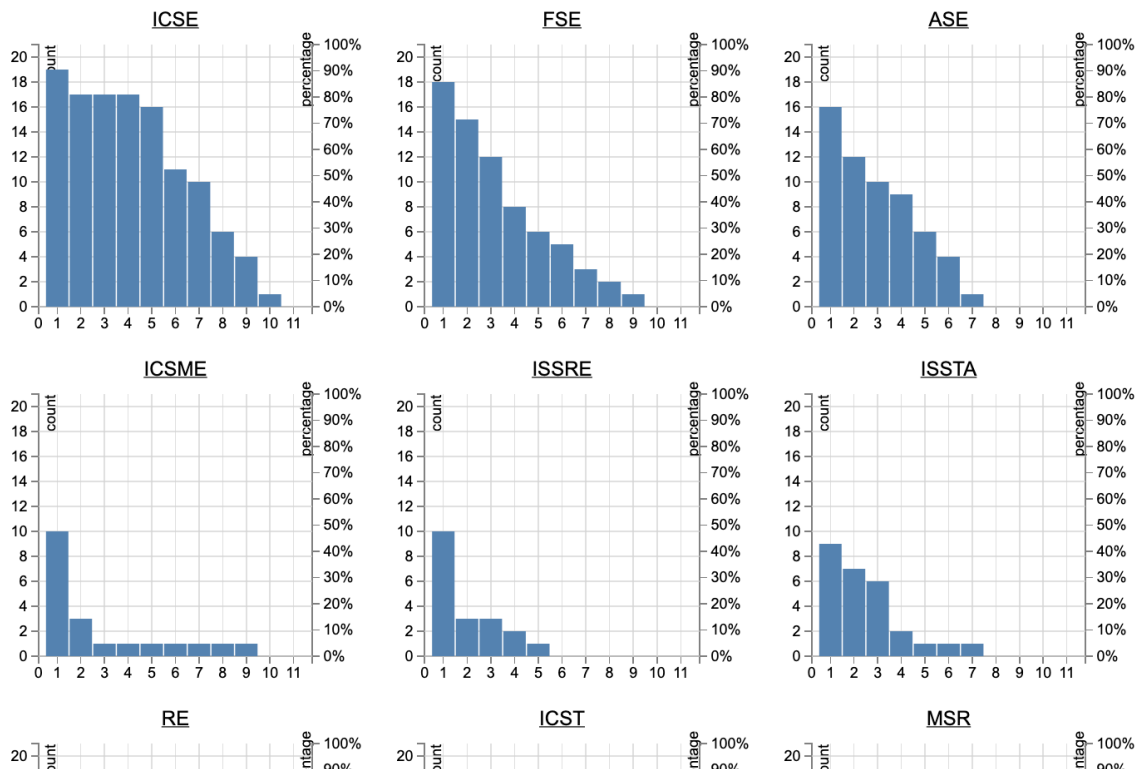
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WPP Report: http://portal.core.edu.au/core/media/conf_rank_report/higherrank1202_top_people_report.txt

Graphs: http://portal.core.edu.au/core/media/conf_rank_graphs/higherrank1202_top_people_graph.png

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Other Information

Comparator Comparison

Comparator

International Conference on Software Engineering

Explanation as to why conference is superior to comparator:

ICSE is the top conference in SE and clearly A*

ASE is not as good as ICSE but as the graphs and very common PC, best people publishing behaviour - it is not far off!

Link to comparator report:

http://portal.core.edu.au/core/media/conference_submission_2020/Data_Comparator_for_1202_322.pdf

Comparator

European Software Engineering Conference and the ACM SIGSOFT Symposium on the Foundations of Software Engineering (duplicate was listed as ESEC, removed from DB)

Explanation as to why conference is superior to comparator:

FSE is the 2nd best conference in SE, but ASE is very very close to it in terms of # submissions, acceptance rate, h5, google and arminer ranking, common PC memebtrs, and very very close WPP

There is little to chose between FSE and ASE - and note ASE is a more *specialised* conference (Automated SE) whereas FSE is a general SE conference...

Note the huge difference of ICSE, FSE, ASE graphs to the A conferences e.g. SANER, MSR, ISSTA, ICSME etc

ASE is clearly on par with A* ranked FSE and not far behind clearly top ICSE

Link to comparator report:

http://portal.core.edu.au/core/media/conference_submission_2020/Data_Comparator_for_1202_323.pdf

Comparator

ACM Conference on Object Oriented Programming Systems Languages and Applications

Explanation as to why conference is superior to comparator:

OOPSLA is A* ranked in 4612 but as can be seen, ASE is clearly much stronger than OOPSLA: -much lower acceptance rate -much higher number papers submitted -much higher h5 -much higher GS metrics position -much stronger PC

Link to comparator report:

http://portal.core.edu.au/core/media/conference_submission_2020/Data_Comparator_for_1202_412.pdf

Attachments

N/A

Proposers

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Last name: Grundy

Affiliation: Monash University

Email: john.grundy@monash.edu

Submitted By

Name: Grundy John

Email: john.grundy@monash.edu