

STAR-METRICS

Ian Foster
Tanu Malik



Science is a complex adaptive system ...



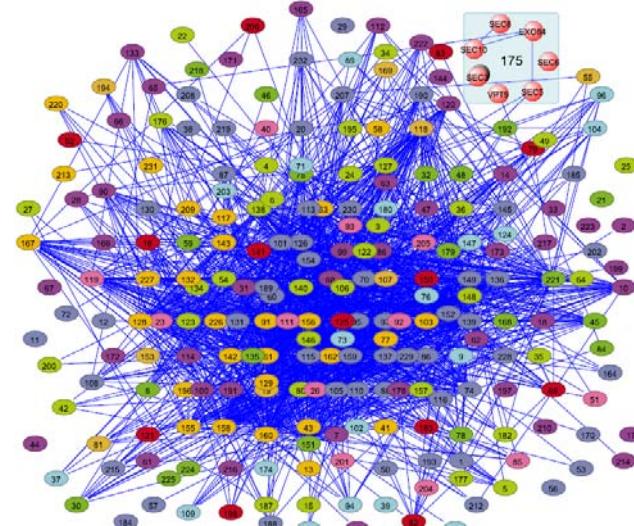
Funding



Human resources



Policies



▶ Knowledge

► Economic

Workforce

Social

... that many need to understand



Policymakers and funding agencies

What is the relationship between inputs and outputs?

Social scientists

How is knowledge created?

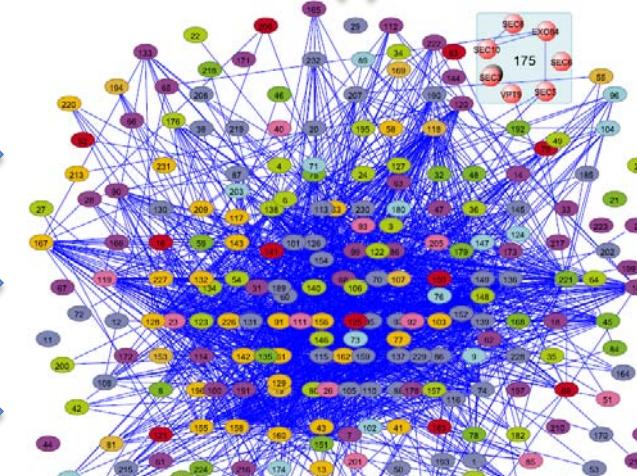
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What is known? Who knows it? What is not known?

Investigators

Goal: Enable quantitative analysis



- Capture as much data as possible
 - R – Products: papers, patents, websites, databases, ...
 - P – Participants and other collaborating organizations
 - P – Impact: disciplinary, cross-disciplinary, human resources, infrastructure, technology transfer, ...
- Make data accessible for query and analysis
 - Query by investigators and policy makers
 - Analysis by researchers and policy makers
- Encourage broad sharing of methods and results
 - Goal: a virtuous circle of increasingly useful results

Automation and incentives are key



- Automated collection and assembly of researcher profiles, with researcher review
 - E.g., Brazilian Lattes Platform
- Social networks to encourage contributions by researchers and institutions
 - E.g., VIVO platform
- Automated generation of high-value derived products to engage research interest
 - E.g., maps of research contributions and impact



Marta Lima de Queiros Mattoso

Bolsista de Produtividade em Pesquisa do CNPq - Nível 1D

possui graduação em Ciência da Computação pela Universidade Federal do Rio de Janeiro (1980), mestrado em Engenharia de Sistemas e Computação pela Universidade Federal do Rio de Janeiro (1987) e doutorado em Engenharia de Sistemas e Computação pela Universidade Federal do Rio de Janeiro (1993). É Professora Associada da Universidade Federal do Rio de Janeiro. Foi diretora de publicações da Sociedade Brasileira de Computação (2005-2007). Tem experiência na área de Ciência da Computação, com ênfase em Banco de Dados, atuando principalmente nos seguintes temas: paralelismo e distribuição em bancos de dados, workflows científicos e gerência de documentos XML.

(Texto informado pelo autor)

Última atualização do currículo em 22/08/20

Endereço para acessar este CV:

<http://lattes.cnpq.br/1420784392366957>



**Certificado
pelo autor em
22/08/10**

Dados pessoais

Nome Marta Lima de Queiros Mattoso

**Nome em citações
bibliográficas** MATTOSO, M. L. Q.; Mattoso, Marta

Sexo Feminino

Endereço profissional Universidade Federal do Rio de Janeiro, Instituto Alberto Luiz Coimbra de Pós Graduação e Pesquisa de Engenharia, Programa de Engenharia de Sistemas. Centro de Tecnologia, Bloco H, sala 319 Ilha do Fundão 21941-972 - Rio de Janeiro, RJ - Brasil - Caixa-Postal: 68511



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[Univ Federal do Rio de Janeiro](#)

Brazilian Lattes Platform: List of contents



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Questions for you



- What information would you be able to provide in a standard format?
 - E.g., project reports
- What information would be useful to you in a prepopulated form?
 - E.g., publications, patents, citations

Thank you!

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Professional metric search

I am interested in:

Biographic Sketch



Name of the Professional:

Ian Foster

Institution:

University of Chicago



GO





Ian T. Foster

Ian Foster is Director of the Computation Institute, a joint institute of the University of Chicago and Argonne National Laboratory. He is also an Argonne Senior Scientist and Distinguished Fellow, Chan Soon-Shiong Scholar and the Arthur Holly Compton Distinguished Service Professor of Computer Science.

Ian received a BSc (Hons I) degree from the University of Canterbury, New Zealand, and a PhD from Imperial College, United Kingdom, both in computer science. His research deals with distributed, parallel, and data-intensive computing technologies, and innovative applications of those technologies to scientific problems in such domains as climate change and biomedicine. Methods and software developed under his leadership underpin many large national and international cyberinfrastructures.

Dr. Foster is a fellow of the American Association for the Advancement of Science, the Association for Computing Machinery, and the British Computer Society. His awards include the Global Information Infrastructure (GII) Next Generation award, the British Computer Society's Lovelace Medal, R&D Magazine's Innovator of the Year, and an honorary doctorate from the University of Canterbury, New Zealand. He was a co-founder of Univa UD, Inc., a company established to deliver grid and cloud computing solutions.

Professional metric search

I am interested in:

Web Profile



Name of the Professional:

Ian Foster

Institution:

University of Chicago



GO



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Facebook: <http://www.facebook.com/iantfoster?ref=sgm>

Twitter: <http://twitter.com/ianfoster>

Continued....

Classification of papers:
• Types
• Areas

Publications

Research	Visionary	Reports
HPC		
Grid		
Knowledge		

- Obtain text of paper
- Obtain Scribes by Students about the Paper
- See presentation from Conference

Ian T. Foster, [Savas Parastatidis](#), [Paul Watson](#), [Mark McKeown](#): How do I model state?: Let me count the ways. [Commun. ACM 51](#)(9): 34-41 (2008)



Projects

Globus

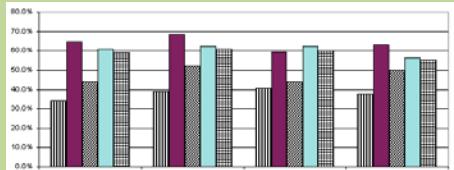
GriPhyN

GRIDS

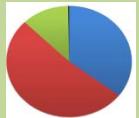
GADU

Project Publications

Project Funding By Year



Project Funding By Personnel



Overall Project Impact: 4/5.0

Scientific Impact: 4.5/5.0

Application Impact: 4.2/5.0

Research Impact: 4.7/5.0

Societal Impact: 4.9/5.0

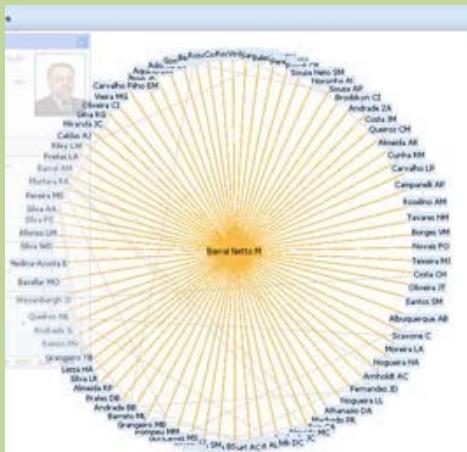
Professional metric search

I am interested in:  of

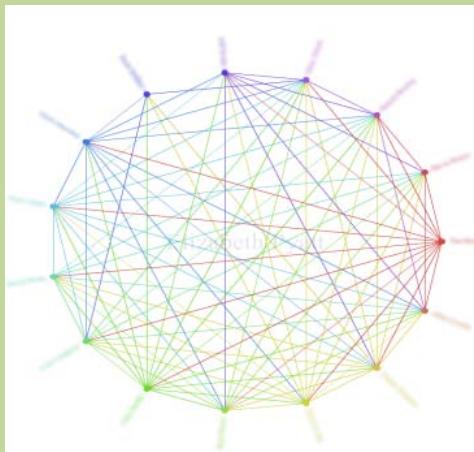
Name of the Professional:

Institution: 

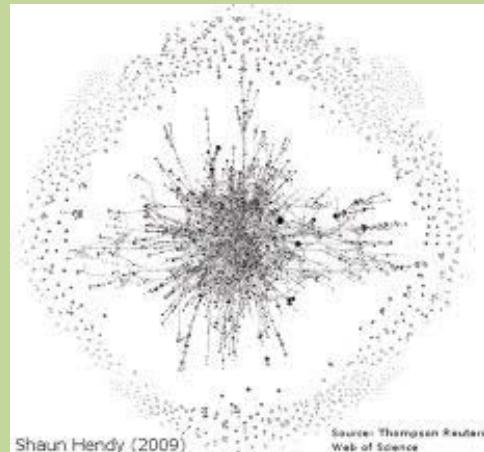




Collaboration Network



coPI Network



coAuthor Network