FabGalaxy

A Novel Visualization for Exploring Fabrication Research

Search Panel

Graph Panel

Publication Ring

Keyword Ring

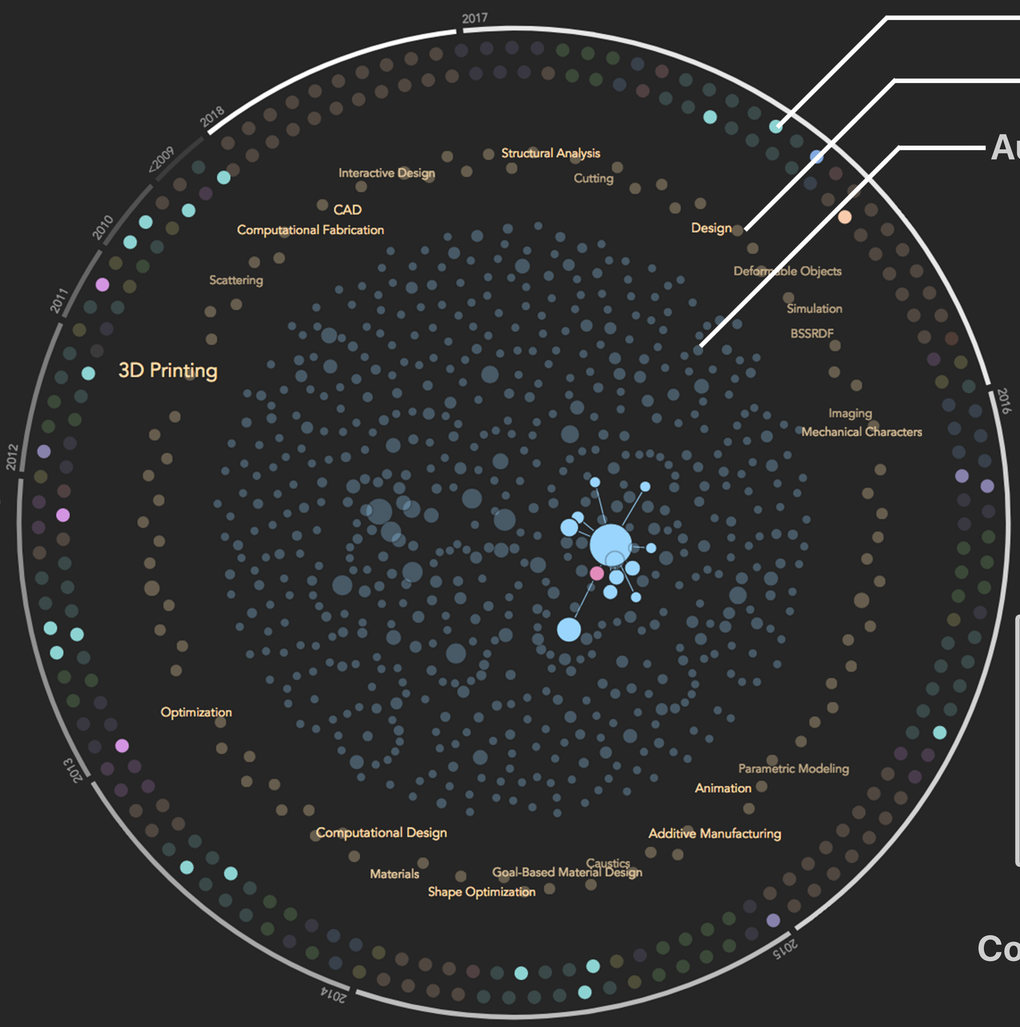
Author Network

Publication List

Conference Legend

Author/Keyword Tooltip

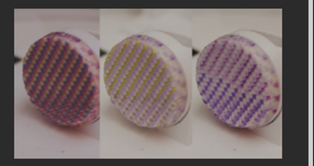
Author	Keyword
Deepti Aggarwal	3D
Harshit Agrawal	Aerodynamics
Maneesh Agrawala	Structural Analysis
Celena Alcock	Animation
Giuseppe Alemanno	Mechanical Assembly
Marc Alexa	BSSRDF
Jason Alexander	Building Blocks
Mirela Alistar	CAD
Jeffrey Alperovich	CAM
Cristina Amati	CNC
Byoungkwon An	Carving
Fraser Anderson	Caustics
Zann Anderson	Shape Changing
Can Ates Arikan	Mechanical Characters
Daniel Ashbrook	Wearable Computing
Thomas Auzinger	Cooking
Jing Bai	Craft
Ilya Baran	Computational Craft
Patrick Baudisch	Crafting
Thabo Beeler	Computational Crafts
Bedrich Benes	Creativity
Karl vom Berge	Maker Culture
James M. Bern	Customization
Dustin Beyer	Cutting
Gaurav Bharaj	Laser Cutting
Bernd Bickel	DIY
Jeffrey P. Bigham	Deformation
Thomas Bläsius	Computational Design
Jan Borchers	Interactive Design
Derek Bradley	Material Design
Maximilian Brehm	Clothing Design
Jimmy Briggs	Design
Eric Brockmeyer	Goal-Based Material Design
Alan Brunton	User-Generated Design
Jim Budd	Interactive Devices
Leah Buechley	Display
Moritz Bächer	Printed Electronics
Varun Perumal C	Static Equilibrium
Dan A. Calian	Extrusion
Marco Callieri	Hybrid Fabrication
Jacques Calì	Personal Fabrication
Thomas Cambazard	Computational Fabrication
Tim Campbell	Digital Fabrication
Yuanzhi Cao	Interactive Fabrication
David Carr	Food
Nathan A. Carr	Haptics
Nathan Carr	Cultural Heritage
Duygu Ceylan	Imaging
Shuangming Chai	



- ACM UIST
- ACM C&C
- ACM TEI
- ACM SIGGRAPH
- ACM SIGGRAPH ASIA
- ACM DIS
- ACM EUROGRAPHICS
- ACM CHI
- ACM Symposium (ACM SCF, ACM SCA, ACM SGP)
- Others (ACM VRST, COMPUTER AND GRAPHICS, IOPScience, IEEE Pervasive Computing, IEEE COMPUTER GRAPHICS AND APPLICATIONS, CEA, NIME)

Peng Song
Co-authors: Chi-Wing Fu, Ligang Liu, Hongfei Xu, Yueming Jin
2 papers
1 papers

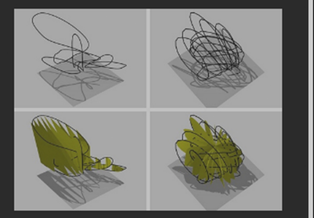
Search results:



ColorMod: Recoloring 3D Printed Objects using Photochromic Inks

Parinya Punpongsanon, Xin Wen, David S Kim, Stefanie Mueller

ACM CHI 2018 DOI



Spatial sketch: bridging between movement & fabrication

Karl D.D. Willis, Juncong Lin, Jun Mitani, Takeo Igarashi

ACM TEI 2010 DOI

PEP (3D Printed Electronic Papercrafts): An Integrated Approach for 3D Sculpting Paper-Based Electronic Devices

Hyunjoo Oh, Tung D. Ta, Ryo Suzuki, Mark D. Gross, Yoshihiro Kawahara, Lining Yao

ACM CHI 2018 DOI

PROBLEM

There is no existing search engines or tools for inexperienced junior researchers to ***know the overall research status***, ***locate the related work***, ***recognize the big brains in this field***, and ***explore potential research topics in fabrication***.

MOTIVATION

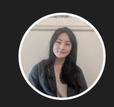
Inspired by the online repository created by the HCI Engineering Group from MIT CSAIL, we explore a ***visual*** and ***interactive*** way to present the research work in fabrication. We hope our tool can provide helpful and useful results forresearchers in fabrication.

APPROACH

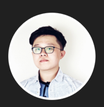
Author & Keyword Centered Search
All user queries are driven by the authors and keywords of the publication.

Multi-Dimensional Node-Link Design
The visualization shows different aspects yet a comprehensive overview of the data.

PAUL G. ALLEN SCHOOL OF COMPUTER SCIENCE & ENGINEERING
ELECTRICAL ENGINEERING UNIVERSITY of WASHINGTON



Kate Jung
sjung94@uw.edu



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CSE512A DATA VISUALIZATION