

**PRINCIPALES ACTIVITES DU
GROUPE THEMATIQUE
SMAI-SIGMA**

(Juin 2013-mai 2014)

**Signal - Image - Géométrie -
Modélisation - Approximation**

Paris, 18 juin 2014

SAT 2013

Intern. Conf. on New Trends in Splines and Approximation Theory

June 19-21, 2013, INSA Rennes

(en l'honneur de Paul Sablonnière)

<http://sat2013.sciencesconf.org/>

Organisateurs : Domingo Barrera (Grenade), Tom Lyche (Oslo), Jean-Louis Merrien (Rennes)

Conférenciers invités: Philippe Ciarlet (Hong Kong) – Dany Leviatan (Tel Aviv) – Carla Manni (Rome) – Florian Méhats (Rennes)

45 participants

Actes : numéro spécial *Jaén Journal on Approximation* (en cours)

Proceedings MMCS 2012

Eighth International Conference on
Mathematical Methods for Curves and Surfaces Oslo

June 28 – July 3, 2012

(Série de congrès franco-norvégiens, tous les 4 ans en alternance avec
Curves and Surfaces)

<http://heim.ifi.uio.no/cagd/2012/>

Proceedings: LNCS 8177 (début 2014 ?)

Editors: Michael Floater, Tom Lyche, Marie-Laurence Mazure, Knut Mørken,
and Larry Schumaker

Journée Scientifique SIGMA'2013

15 Novembre 2013, Laboratoire JLL, Paris 6

Conférenciers :

Rachid Ait-Haddou (King Abdullah University)

Karl Deckers (Universit de Lille 1)

Julie Delon (Telecom Paris Tech)

Jalal Fadili (ENSI Caen)

Quentin Mrigot (Universit de Grenoble)

Maks Ovsjanikov (Ecole Polytechnique)

36 participants

AG SMAI-SIGMA, 15 Novembre 2013

- **Nouveau règlement intérieur SMAI-SIGMA** (voir page web)
- **Election du nouveau comité de liaison**

Bernhard Beckermann

Frédéric Chazal

Albert Cohen

Olivier Gibaru

Christian Gout

Marie-Laurence Mazure

Quentin Mérigot

Eric Nyiri

Valérie Perrier

Gabriel Peyré

CURVES AND SURFACES 2014

ENSAM, Paris, 12-18 juin 2014

<http://www.curvesandsurfaces2014.fr/>
<http://smai.emath.fr/curves2014/index.php>

Organisers: Jean-Daniel Boissonnat – Albert Cohen – Olivier Gibaru – Christian Gout – Tom Lyche – Marie-Laurence Mazure – Larry Schumaker –

Webmaster : Eric Nyiri

Programme/Résumés : Yvon Lafranche

Environ 270 participants de 35 pays.

Bilan à faire, prochain congrès en 2018.

CURVES AND SURFACES 2014

Conference topics: “Representation and Approximation of Curves and Surfaces and Applications”

with subtopics:

Approximation theory – Computer-aided geometric design – Computer graphics and visualisation – Computational Geometry and Topology – Geometry processing – Image and signal processing – Interpolation and smoothing – Mesh generation, finite elements and splines – Scattered data processing and learning theory – Sparse and high-dimensional approximation – Subdivision, wavelets and multi-resolution methods

as well as related applications in manufacturing, mechanics, solid modelling, terrain modelling, oceanography, geosciences, life sciences ...

CURVES AND SURFACES 2014

Scientific Committee: Annalisa Buffa (Pavia, Italy) – Martin Buhmann (Giessen, Germany) – Emmanuel Candes (Stanford, USA) – Frédéric Chazal (INRIA Saclay) – Wolfgang Dahmen (Aachen, Germany) – Ron DeVore (Texas A&M, USA) – Tamal Dey (Ohio., USA) – Nira Dyn (Tel Aviv) – Herbert Edelsbrunner (Vienna, Austria) – Tom Grandine (Boeing, USA) – Ron Kimmel (Technion, Haifa, Israel) – Gitta Kutyniok (TU Berlin, Germany) – Mauro Maggioni (Duke Univ., Durham, USA) – Jorg Peters (Univ. of Florida, USA) – Pencho Petrushev (Univ. of South Carolina, USA) – Gabriel Peyré (Paris) – Helmut Pottmann (KAUST) – Guillermo Sapiro (Minnesota, USA) – Zuowei Shen (Singapore)

Invited speakers: [Francis Bach](#) (INRIA, France) – [Lars Grasedyck](#) (RWTH Aachen, Germany) – [Leonidas Guibas](#) (Stanford Univ., USA) – [Kai Hormann](#) (Lugano Univ., Switzerland) – [Gabriel Peyré](#) (Paris-Dauphine) – [Pencho Petrushev](#) (South Carolina Univ., USA) – [Konrad Polthier](#) (Univ. Berlin, Germany) – [Rebecca Willett](#) (Duke Univ., USA) – [Grady Wright](#) (Boise State Univ., USA) –

CS 2014– Invited mini-symposia

Isogeometric Analysis organisé par Annalisa Buffa (CNR, Pavie)

Mesh generation and surface reconstruction par Siu-Wing Cheng (HK Univ.)

Barycentric coordinates par Michael Floater (Univ. Oslo)

Geometry processing for manufacturing par Tom Grandine, Boeing

Dictionary learning and applications par Rémi Gribonval (IRISA, Rennes)

Anisotropic approximation theory par Philipp Grohs (ETH, Zurich)

Sampling and compressive sensing over the continuum par Anders Hansen (Cambridge, UK)

High dimensional data geometry par Mauro Maggioni (Duke Univ.)

Geometry Processing par Mark Pauly (EPFL)