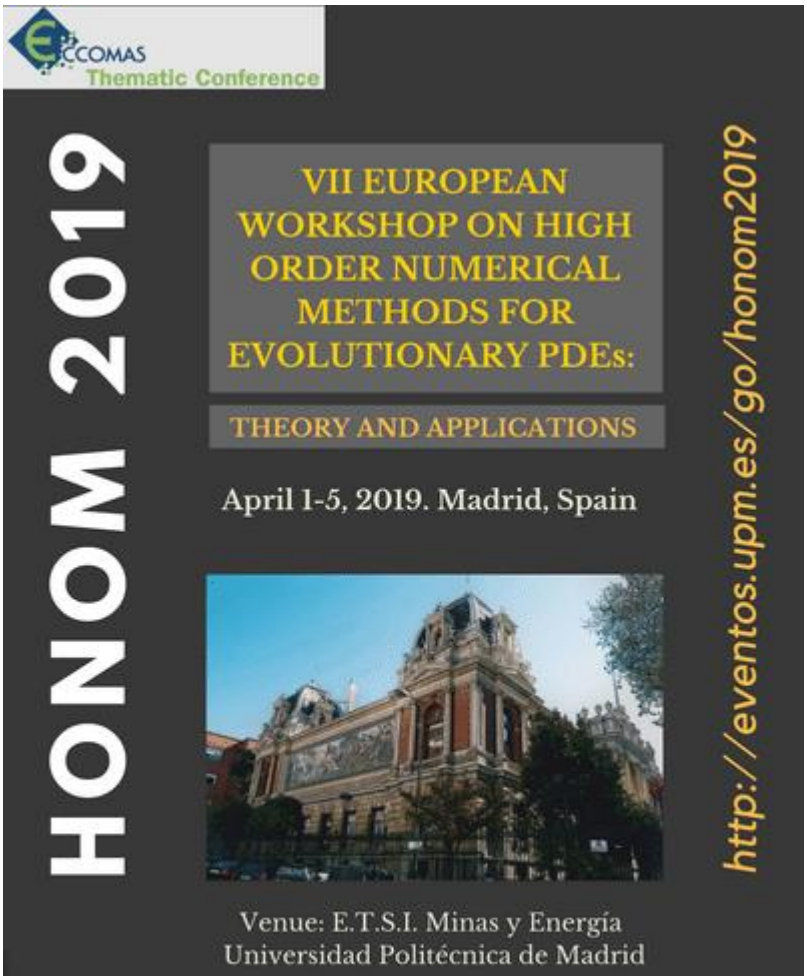


POLITÉCNICA

ESCUELA TÉCNICA SUPERIOR DE INGENIEROS DE MINAS Y ENERGÍA

CCS Center for Computati Simulation

CONFERENCE PROGRAMME

SFB-TRR 75
Tropfendynamische Prozesse unter extremen Umgebungsbedingungen

SimTech
Cluster of Excellence

ExaHyPE
An Exascale Hyperbolic PDE Engine

University of Zurich[UZH]

I·Math Institute of Mathematics

Background

This is the VII edition of HONOM conference. The previous ones were held in Trento (2007, 2009, 2011, 2015), Bordeaux (2013) and Stuttgart (2017). Mathematical modeling, based on Partial Differential Equations (PDEs) and numerical simulation are fundamental tools in the context of problems arising in engineering, physics, biology or medicine among many others, from the point of view of computational efficency and accuracy of the results obtained. In the field of CFD, finite volume and discontinuous Galerkin methods are commonly used. In order to achieve high order of accuracy in space, high order reconstruction methods were firstly introduced in the 80s, namely Essentially Non Oscillatory (ENO) schemes. Later on Weighted ENO (WENO) techniques and Central WENO (CWENO) methods were developed. Total Variation Diminishing (TVD) schemes allow to obtain well-established second order schemes. However, this TVD property is also used in Runge-Kutta schemes to get higher order of accuracy, such as the third order RK-TVD scheme which is widely used. More recently ADER approach, in the context of Riemann problems, was introduced which allows to obtain arbitrary order of accuracy. A step forward in ADER schemes are the so called Local Space-Time DG which allow to apply ADER method to problems with stiff source terms.

Venue

The conference will take place in Madrid (Spain) at Escuela Técnica Superior de Ingenieros de Minas y Energía (Universidad Politécnica de Madrid).

Madrid is the capital of Spain and a very cosmopolitan place, where modern infrastructures coexist with a large historical and cultural heritage. The modern part of the city includes Gran Via, which was built at the beginning of XX century, Paseo de la Castellana crossing the city from North to South, the business zone of Nuevos Ministerios and Azca or the Four Towers Business Area. Concerning the historical part it stands out the zone called Madrid de los Austrias, which dates back to 16th century. There are many cultural and historical attractions such as Prado Museum, Reina Sofia Art Center, Caixa Forum Madrid, Museo Thyssen-Bornemisza, The Royal Palace, the Almudena Cathedral or Plaza Mayor.

Organizing Committee

Eleuterio F. Toro, University of Trento, Italy.
Remi Abgral, University of Zurich, Switzerland.
Michael Dumbser, University of Trento, Italy.
Claus-Dieter Munz, University of Stuttgart, Germany.

Local Organizing Committee

Arturo Hidalgo (Chairman).
Carlos Conde.
Francisco Javier Elorza.
Alfredo López.
José Luis Parra.
Lourdes Tello.

Invited speakers

Jan Hesthaven	École Polytechnique Fédérale de Lausanne, Switzerland.
Raphael Loubère	Université de Bordeaux, France.
Pep Mulet	Universitat de Valencia, Spain.
Ilya Peshkov	Paul Sabatier University,Toulouse III, France.
Gabriella Puppo	Università degli Studi dell'Insubria, Italy
Vladimir Titarev	Federal Research Center Computer Science and Control, Russia.
Svetlana Tokareva	Los Alamos National Laboratory, USA.
Maria Elena Vázquez-Cendón	Universidade de Santiago de Compostela, Spain.
Helen Yee	NASA Ames Research Center, USA.

Address

- The address of the event is:

Escuela Técnica Superior de Ingenieros de Minas y Energía.

Ríos Rosas, 21. 28003 Madrid.

- The talks will take place in:

Room 1 (Auditorium).

Room 2 (Fausto Elhuyar Room).

Conference WiFi

There is a WiFi access available for all the participants in the conference.

Name of the network: **InvitadosUPM**

Username: **HONOM2019**

Password: **h7phe1r6**

Social Activities

Tuesday, 2. Guided Visit to the Mine-Museum Marcelo Jorissen

This is an artificial mine that dates back to 1963 and was created by a former Director of the School of Mines, Marcelo Jorissen, for students' practice. Although it is not a real mine, all the elements inside come from real ones. Since the 80's it is no longer used for students' practice but it is just an attraction.

Wednesday, 3. Guided Visit to Museo del Prado (Prado Museum)

On Wednesday 3rd there will be a guided visit to Prado Museum (Museo del Prado). This is one of the most important painting museum in the world. All the participants in the conference may attend the visit that will take place in reduced groups with an official guide. The tours will take place in English. This visit is included in the Conference fees. There will be a bus outside the main entrance of the building to pick up the participants interested in this visit. At the end of it the bus will take the participants back to the University.

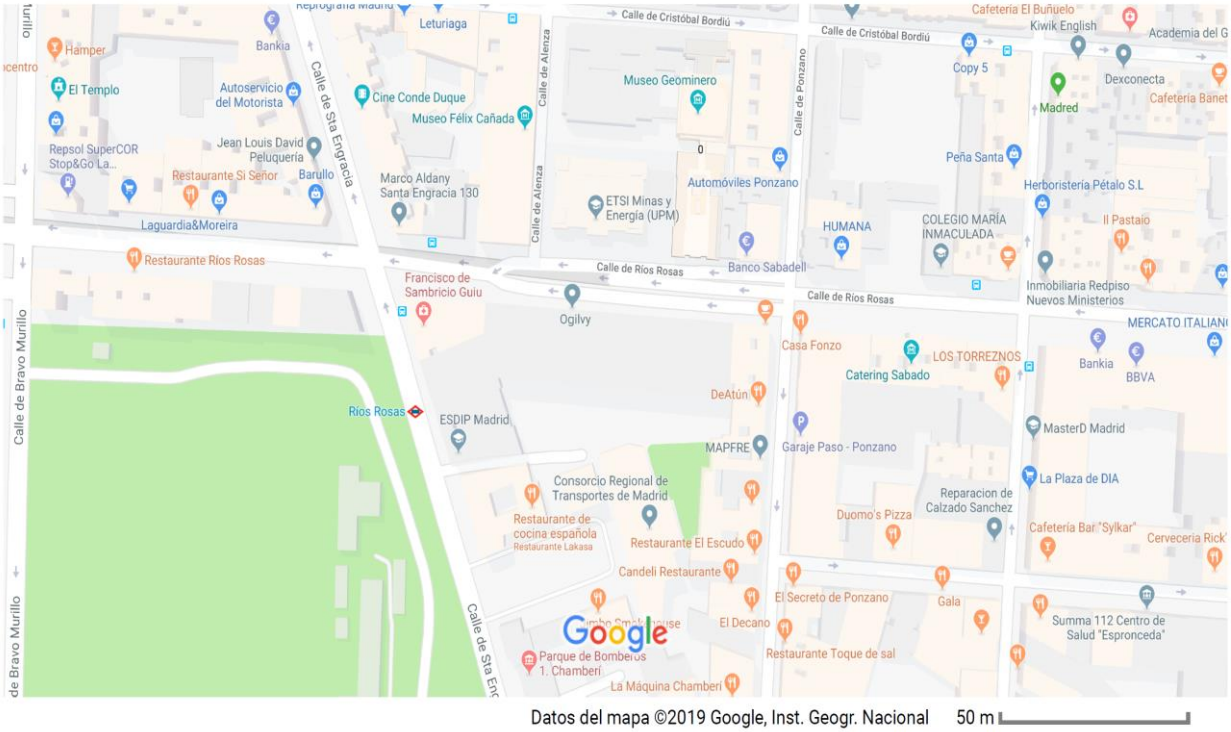
Thursday, 4. Conference Dinner.

The Conference Dinner will take place in the main building of Escuela Técnica Superior de Ingenieros de Minas y Energía.

Lunch and dinner opportunities

It is possible to have lunch at the bar of the conference venue (ETSI Minas y Energía). The price for participants in HONOM conference is 5.50€.

There are also several places around the conference place, restaurants and tapas bars, to have lunch or dinner.



Many of them are in the streets: Ríos Rosas, Santa Engracia and Ponzano.

Schedule HONOM 2019

	MONDAY		TUESDAY		WEDNESDAY		THURSDAY		FRIDAY	
9:00-9:30	Registration		R. Loubère		E. Vázquez-Cendón		J. Hesthaven		S. Tokareva	
9:30-10:00	**WELCOME & Intro.**									
10:00-10:30	P. Mulet		C. Parés		M. Dumbser		J. Nordström		G. Gassner	
10:30-11:00			Coffee break		Coffee break		Coffee break		Coffee break	
11:00-11:30	Coffee break		D. Kopriva		E.F. Toro		F. Hindenlang		G. Bertaglia	Pan Yu
11:30-12:00	M.J. Castro		M. Ioratti	H. Temimi	L.Saavedra	W. Barsukow	N. Mikhailov	A.M. Rueda (2)	P. Bacigaluppi	F. Kummer
12:00-12:30	S. Chiocchetti	Yujie Zhu	A. Kikker	P. Rai	S. Busto	H. Ranocha (1)	L.M.Versbach	P. Chandra	P. Öphner	Yu Xin Ju
12:30-13:00	E. Ferrer		M. Tavelli	Hugo Carrillo	F. Fambri	G.Rubio	M. Bragin	H. Ranocha (2)	A. Pascau	
13:00-14:30	Lunch break		Lunch break		Lunch break		Lunch break		**CLOSING**	
14:30-15:00	I. Peshkov		G. Puppo		H. Yee		V. Titarev			
15:00-15:30										
15:30-16:00	A. Ershova	D. Torlo	M. Geisenhofer	F.C. Massa	Coffee break		V. Perrier	A. Baeza		
16:00-16:30	Coffee break		Coffee break		**Guided visit to Prado Museum**		Coffee break			
16:30-17:00	K.A. Schneider	Tan Bui	I. Gómez-Bueno	M.Eimer			A.I. Muñoz	S. Jöns		
17:00-17:30	E. Lé Méledo	W. Boscheri	J. Manzanero	A.M.Rueda (1)			Zhenguo Yan	M. Veiga		
17:30-18:00	Group discussion		Group discussion				V. Llorente	P. Lafon		
18:00-18:30	**Reception**		**Visit to the mine-museum**				P. Bakhalov	V. Singh		
18:30-19:00							Group discussion			
19:00-19:30										
21:00							**Conference dinner**			

Program

Monday 01/04/2019

10:00-11:00 Room 1	*Implicit-explicit schemes for degenerate diffusion-convection PDE.* P. Mulet.
11:30-12:00 Room 1	*A high order discontinuous Galerkin scheme for a hyperbolic relaxation system for dispersive non-hydrostatic water waves.* C. Escalante, M. Dumbser and M.J. Castro.
12:00-12:30 Room 1	*High order ADER schemes for a first order hyperbolic formulation of compressible flow with surface tension.* S. Chiocchetti, M. Dumbser, S. Gavrilyuk and I. Peshkov.
12:00-12:30 Room 2	*A L2-norm regularized incremental-stencil WENO scheme for compressible flows.* Y. Zhu and X. Hu.
12:30-13:00 Room 1	*Implicit large eddy simulations for airfoils using compressible and incompressible discontinuous Galerkin solvers.* E. Ferrer, J. Manzanero, A.M. Rueda-Ramírez, G. Rubio and E. Valero.
14:30-15:30 Room 1	*The need for structure preserving methods in continuum physics.* I. Peshkov, D. Dumbser and E. Romenski.
15:30-16:00 Room 1	*The HLLEM scheme in three-dimensional multicomponent gas dynamics code using arbitrary equation of state.* A. V. Ershova, N. A. Mikhailov and I. V. Glazyrin.
15:30-16:00 Room 2	*High order deferred correction residual distribution schemes for stiff relaxation problems with implicit treatment.* D. Torlo and R. Abgrall.
16:30-17:00 Room 1	*On a class of two-dimensional incomplete Riemann solvers.* K.S. Schneider and M.J. Castro.
16:30-17:00 Room 2	*An Upwind Hybridized Discontinuous Galerkin Framework: Theory, Algorithms and Applications.* T. Bui.

17:00-17:30
Room 1

A class of polytopial H(div) -- conformal elements and their approximation spaces.
R. Abgrall, E. Le Mélédo and P. Öffner.

17:00-17:30
Room 2

Central WENO subcell finite volume limiters for ADER discontinuous Galerkin schemes on fixed and moving unstructured meshes.
W. Boscheri, M. Semplice and M. Dumbser.

Tuesday 02/04/2019

9:00-10:00
Room 1

A posteriori cures of inherent numerical issues generated by high accurate schemes.
R. Loubère.

10:00-10:30
Room 1

Compact Approximate Taylor methods for systems of conservation laws.
H. Carrillo and C. Parés.

11:00-11:30
Room 1

A Field-Guided Method for Quadrilateral Mesh Generation: Using High Order Methods to Generate Grids for High Order Methods.
D. Kopriva, J. Marcon, J. Peiro and S. Sherwin.

11:30-12:00
Room 1

A posteriori sub-cell finite volume limiting of staggered semi-implicit discontinuous Galerkin schemes for the Euler equations of gasdynamics.
M. Ioratti, M. Dumbser and R. Loubère.

11:30-12:00
Room 2

Space-time discontinuous Galerkin method for the one-dimensional wave equation.
H. Temimi, and M. Baccouch.

12:00-12:30
Room 1

A high-order local Discontinuous Galerkin solver for viscoelastic flow: new ways to solve the confined cylinder benchmark problem.
A. Kikker and F. Kummer.

12:00-12:30
Room 2

An entropy stable high order DGSEM for the Baer-Nunziato model.
F. Coquel, C. Marmignon, P. Rai, and F. Renac.

12:30-13:00
Room 1

High order numerical schemes for linear and non-linear elasticity.
M. Tavelli and M. Dumbser.

12:30-13:00
Room 2

An order-adaptive compact approximation Taylor method for systems of conservation laws.
H. Carrillo, C. Parés, E. Macca, G. Russo and D. Zorío.

14:30-15:30
Room 1

High order well balanced methods for gas dynamics with gravity.
G. Puppo.

15:30-16:00
Room 1

A Discontinuous Galerkin immersed boundary solver for compressible flow: From time efficient shock-capturing to shock-fitting.
M. Geisenhofer, F. Kummer and B. Müller.

15:30-16:00
Room 2

Density positivity and mass conservation for an implicit high-order discontinuous Galerkin method applied to variable density incompressible flows.
F. Massa, F. Bassi, L. Botti and A. Colombo.

16:30-17:00
Room 1

A Static Condensation Algorithm for Time-Implicit discretizations of Gauss-Lobatto Discontinuous Galerkin Spectral Element Methods.
A. M. Rueda-Ramírez, D.A. Kopriva, E. Ferrer, G. Rubio and E. Valero.

16:30-17:00
Room 2

Local time stepping scheme for district heating networks.
M. Eimer, Raul Borsche and Norbert Siedow.

17:00-17:30
Room 1

A free-energy stable nodal discontinuous Galerkin approximation with summation-by-parts property for the Cahn-Hilliard equation.
J. Manzanero, Gonzalo Rubio, David A. Kopriva, Esteban Ferrer, and Eusebio Valero.

17:00-17:30
Room 2

High-order well-balanced methods for systems of balance laws: a control-based approach.
I. Gómez Bueno, and C. Parés.

Wednesday 03/04/2019

9:00-10:00
Room 1

Well-balanced finite volume segregated schemes for hyperbolic non linear systems with source terms
E. Vázquez-Cendón.

10:00-10:30
Room 1

A structure-preserving staggered semi-implicit scheme for continuum mechanics.
M. Dumbser, W. Boscheri, M. Ioriatti, I. Peshkov and E. Romenski.

11:00-11:30
Room 1

Simplified ADER schemes based on a time-reconstruction solver for the generalised Riemann problem.
E.F. Toro.

11:30-12:00
Room 1

High-order invariant domain preserving ALE approximation of hyperbolic systems.
J.-L. Guermond, B. Popov and L. Saavedra.

11:30-12:00
Room 2

On the low Mach number limit of the Active Flux scheme.
W. Barsukow, J. Hohm, C. Klingenberg and P.L. Roe.

12:00-12:30
Room 1

High order semi-implicit discontinuous Galerkin methods for natural convection problems.
S. Busto, M. Tavelli, W. Boscheri and M. Dumbser.

12:00-12:30
Room 2

High-Order Methods on Summation by Parts Form for the Magnetic Induction Equation.
H. Ranocha, K. Ostaszewski, P. Heinisch.

12:30-13:00
Room 1

High order path-conservative ADER discontinuous Galerkin schemes for the GRMHD equations.
F. Fambri, M. Dumbser, O. Zanotti, L. Rezzolla and S. Köppel.

12:30-13:00
Room 2

A high-order discontinuous Galerkin solver for multiphase flows.
J. Manzanero, C. Redondo, G. Rubio, E. Ferrer, E. Valero, S. Gómez-Álvarez and Á. Rivero.

14:30-15:30 Room 1 — *Two Decades Old Entropy Stable Methods for the Euler Equations Revisited.*
H. Yee.

Thursday 04/04/2019

9:00-10:00 Room 1 — *Controlling oscillations in high-order accurate methods through neural networks.*
J. Hesthaven.

10:00-10:30 Room 1 — *Stable and Accurate Filtering Procedures for High Order Summation-By-Parts Schemes.*
J. Nordström and T. Lundquist.

11:00-11:30 Room 1 — *A new entropy conservative two-point flux for ideal MHD equations derived from first principles.*
F. Hindenlang and G. Gassner.

11:30-12:00 Room 1 — *A reconstruction of the velocity vector in Godunov Euler schemes on three-dimensional unstrusctured mesh.*
N. A. Mikhailov and I. V. Glazyrin.

11:30-12:00 Room 2 — *An Approach to Unsteady p-Adaptation Based on Truncation Error Estimations for HighOrder Discontinuous Galerkin Methods.*
A. M. Rueda-Ramírez, G. Rubio, E. Ferrer and E. Valero.

12:00-12:30 Room 1 — *New Multigrid Preconditioners for DG Methods.*
L. M. Versbach, P. Birken and G. Gassner.

12:00-12:30 Room 2 — *High-order Flux Reconstruction schemes with Implicit time-stepping for the Compressible Navier-Stokes equations.*
P. Chandra, K. Puri and C. Hirsch.

12:30-13:00 Room 1 — *A conservative limiting method for bicompact and finite-element schemes.*
M. Bragin and B. Rogov.

12:30-13:00 Room 2 — *On Strong Stability of Explicit Runge-Kutta Methods for Nonlinear Problems.*
H. Ranocha.

14:30-15:30
Room 1

Numerical analysis of high-speed three-dimensional flows of rarefied gas on the basis of the Shakhov model.
V.A. Titarev.

15:30-16:00
Room 1

Symmetrizable first order formulation of Navier-Stokes equations and numerical results with the discontinuous Galerkin method.
V. Perrier.

15:30-16:00
Room 2

Efficient smoothness indicators for a class of WENO methods.
A. Baeza, R. Bürger, P. Mulet and D. Zorío.

16:30-17:00
Room 1

Approximate Riemann Solution of the Generalized Riemann Problem for Advection Diffusion Equations.
S. Jöns and C.D. Munz.

16:30-17:00
Room 2

A nonlocal nonconvex approach to saliency detection.
E. Alcaín, A. I. Muñoz, I. Ramírez and E. Schiavi.

17:00-17:30
Room 1

Accelerating spectral/hp element DG simulations using implicit time integration methods.
Zhen-Guo Yan, Yu Pan, J. Peiro and S. Sherwin.

17:00-17:30
Room 2

Towards a generalised limiter for nonlinear conservation laws through domain adaptation.
R. Abgrall and M.H. Veiga.

17:30-18:00
Room 1

ENATE, a high-order scheme for convection-diffusion problems.
V.J. Llorente and A. Pascau.

17:30-18:00
Room 2

Application of high-order numerical methods for modeling multicomponent and multiphase flows.
P. Lafon.

18:00-18:30
Room 1

Error estimation of linear numerical schemes on periodic meshes for transport equation.
P. Bakhalov.

18:00-18:30 Room 2 — *Kinetic energy preserving split form flux reconstruction for the compressible Euler equations at Gauss nodes.* V. Singh and Steven Frankel.

Friday 05/04/2019

9:00-10:00 Room 1 — *Advances in High-order Residual Distribution Scheme for Fluid Dynamics and Lagrangian Hydrodynamics.* S. Tokareva, R. Abgrall, P. Bacigaluppi, K. Lipnikov and N. Morgan

10:00-10:30 Room 1 — *Subcell Adaptive Shock Capturing for Discontinuous Galerkin Methods.* Gregor Gassner, Johannes Markert and Stefanie Walch.

11:00-11:30 Room 1 — *Accuracy-preserving IMEX schemes applied to the augmented FSI system for blood flow in viscoelastic vessels.* G. Bertaglia, V. Caleffi and A. Valiani.

11:00-11:30 Room 2 — *Accuracy and Efficiency Comparison of Different Implicit Time Integration Schemes.* Yu Pan, Zhen-Guo Yan, J. Peiro and S. Sherwin.

11:30-12:00 Room 1 — *Current status on of High-order Residual Distribution Schemes for Non-linear Hyperbolic.* R. Abgrall, P. Bacigaluppi and S. Tokareva.

11:30-12:00 Room 2 — *Extended discontinuous Galerkin methods for the simulation of three-phase contact line problems.* F. Kummer and M. Smuda.

12:00-12:30 Room 1 — *Analysis of SAT-Techniques in the Finite-Element-Framework.* R. Abgrall, J. Nordstöm, P. Öffner, and S. Tokareva.

12:00-12:30 Room 2 — *A High Order ALE Discontinuous Galerkin Method for Solving Compressible Euler Equations.* Xijun Yu, Chaobao Huanga and Na An.

12:30-13:00 Room 1 — *ENATE, a high-order scheme for Cartesian grids with arbitrary expansion/contraction ratios.* A. Pascau.

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