SOFA Technical Committee #21

- Agenda -

Day 1 - Wednesday 24th June

*Location: **Inria Strasbourg**, 2 rue Marie Hamm, Strasbourg (France)*
Room: 2nd floor meeting room
*Hybrid access: sofa-framework.org/**stc21/join***

	9:00 am	*Welcoming breakfast*
SOFA activity overview	9:15 – 9:30 am	**Opening STC#21 with consortium news**
	9:30 – 10:30 am	**v26.06 roadmap contributions (1/2)** (each 10 min. max) • Pixi-based continuous integration - Paul Baksic • Efficient and direct resolution of Lagrangian constraints - Alexandre Bilger • Python Template Library (Prefabs) - Eulalie Coevoet • Integration of the method Fast but Accurate - Paul Baksic • Validation & verification - Hugo Talbot • Minimal version of SOFA - Paul Baksic • Refactor object registration - Hugo Talbot • Design of a robotic application (IHM) - Hugo Talbot • Differentiable Simulation* - Léo Bois • Modular FEM: integration of Elasticity plugin* - Alexandre Bilger • Cosserat rod plugin - Yinoussa Adagolodjo • Python API for code generation - Alexandre Bilger • Investigation of Gaussian Splatting with SOFA - Damien Marchal • GPU-based collision detection - Paul Baksic
	10:30 – 11:00 am	*Coffee break*
	11:00 – 12:00 pm	**v26.06 roadmap contributions (2/2)**
	12:00 – 12:30 pm	**Roundtable** Share your out-of-roadmap activity - past and future (without slide or 3 slides max)
	12:30 – 1:30 pm	*Lunch*
	1:30 – 1:45 pm	**Consortium missions** **Presentation of the v26.12 provisional roadmap**

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Defining v26.06 roadmap	1:45 – 3:15 pm	**Modular FEM mechanics: integration of Elasticity plugin (source integration, validation, symbolic auto-differentiation)**
	3:15 – 3:45 pm	*Coffee break*
Defining v26.06 roadmap	3:45 – 5:15 pm	**Differentiable simulation with SOFA : Sofa.Diff plugin**
	5:15 – 5:30 pm	*Coffee break*
	5:30 pm	Wrap up - Day 1
	7:00 pm	*Social Event - Restaurant (**La Madeleine**)*

Day 2 - Thursday 25th June

	9:00 am	*Welcoming breakfast*	
Defining v26.06 roadmap	*9:30 – 10:30 am*	**Journal Club : Fast But Accurate: A Real-Time Hyperelastic Simulator with Robust Frictional Contact**	Free discussions / Sprint
	10:30 – 11:00 pm	*Coffee break*	
Defining v26.06 roadmap	*11:00 – 12:30 pm*	**Non-linear time integration (ODE refactoring, energy-based solvers)**	
	12:30 – 1:30 pm	*Lunch*	
	1:30 – 3:00 pm	***Free discussions***	***Sprint***
	3:00 – 3:30 pm	*Coffee break*	
Defining v26.06 roadmap	*3:30 – 5:00 pm*	***Technical issues (haptic feedback, floating point, SofaGym)***	***Demo of the PoC : GUI for soft-robotics***
	5:00 pm	Wrap up - Day 2	
	7:15 pm	*Social Event - Bar (**Le Garde Fou**)*	

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Day 3 - Friday 26th June

	9:00 am	*Welcoming breakfast*	
Defining v26.06 roadmap	9:00 – 10:30 pm	**Journal Club : Fast and Reliable Gradients for Deformables Across Frictional Contact Regimes**	**Free discussions / Sprint**
	10:30 – 12:30 pm	***Free discussions / Prefabs***	***Sprint***
	12:30 pm	*Wrap up - STC#21 closing*	

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