

Innovation and informal knowledge exchanges between firms

J. Raimbault^{1,2,3,4}
juste.raimbault@ign.fr

¹LASTIG, Univ Gustave Eiffel, IGN-ENSG

²CASA, UCL

³UPS CNRS 3611 ISC-PIF

⁴UMR CNRS 8504 Géographie-cités

Artificial Life 2022

Special session ALife and Society July 19th 2022



Firm clusters and innovation

Agent-based modeling innovation

Research objective

Statistical convergence

Global sensitivity analysis

	α_S		p_C		s_C		p_M		
	F	T	F	T	F	T	F	T	
b	0.001	0.002	0.001	0.003	$9 \cdot 10^{-4}$	0.002	0.41	0.75	
\bar{f}	0.02	0.07	$6 \cdot 10^{-4}$	0.002	0.0	0.003	0.36	0.69	
Δf	$7 \cdot 10^{-4}$	0.56	0.0	0.9	0.0	0.0	0.003	0.0	
\mathcal{E}_f	0.14	0.64	0.0	0.44	0.27	0.36	0.48	0.84	0
d	0.007	0.13	0.001	0.04	0.01	0.1	0.45	0.7	

Parameter space exploration



To use OpenMOLE (free and open software) and contribute:

<https://openmole.org>

Model code and results open source at

<https://github.com/JusteRaimbault/InnovationInformal>

<https://doi.org/10.7910/DVN/X8PWPF>

