



Arte, Ciência e Tecnologia - Sinergias

Mesa-redonda:

“A cidade em conflito: o projeto **DesHabitar** Escutas”
3o encontro ACT>IEA-USP

Prof. Fabio Kon

Departamento de Ciência da Computação

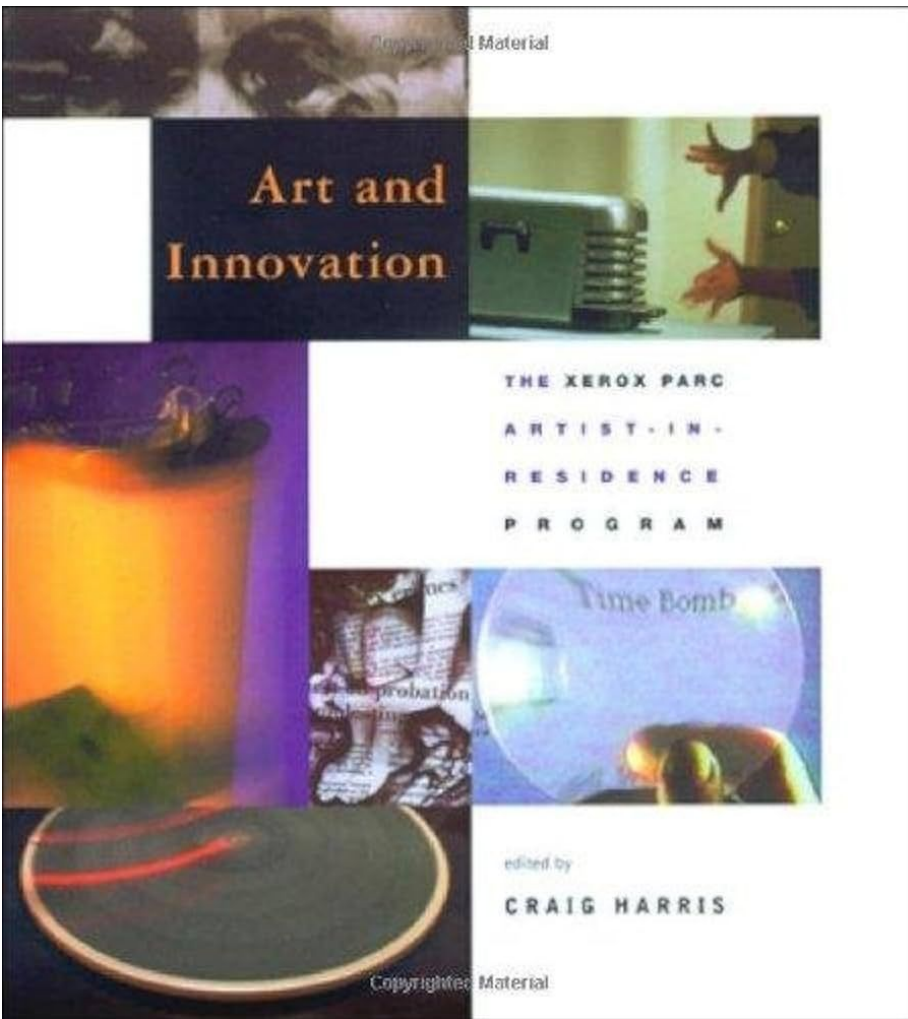
IME/USP



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- Duas paixões da infância: Ciência e Arte
- Dúvida: qual carreira seguir?
- Dificuldades do modelo tradicional de lidar com interdisciplinaridade
 - CNPq vs. FAPESP
 - Mas, prá que serve isso?



1993

PARC's Artist-in-Residence Program (PAIR) **brings artists who use new media to PARC and pairs them with researchers who often use the same media, though in different contexts.** This is radically different from most corporate support of the arts, where there is little intersection between the disciplines.

Visitas: 1995 and 2019



Ideia

- O pensamento artístico e o pensamento científico, são duas formas diferentes de algo muito parecido
- Exercitar o pensamento científico fortalece o fazer artístico
- Exercitar a arte fortalece o pensamento científico



Grupo de Computação Musical - IME/USP

🇺🇸 English

🇧🇷 Português

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Grupo de Computação Musical - IME/USP

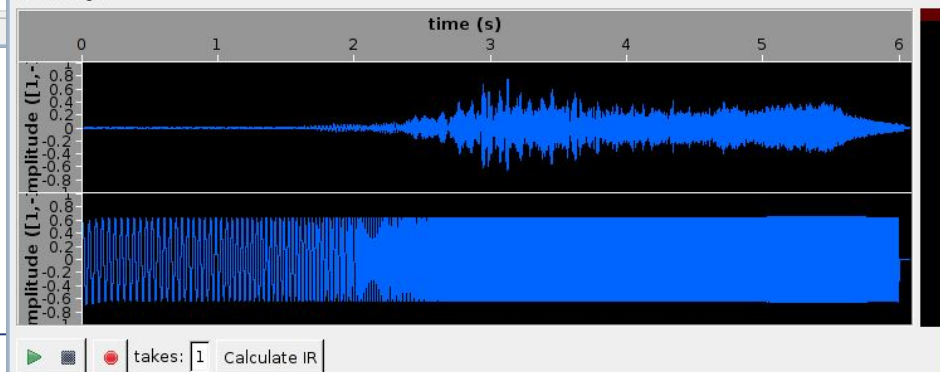
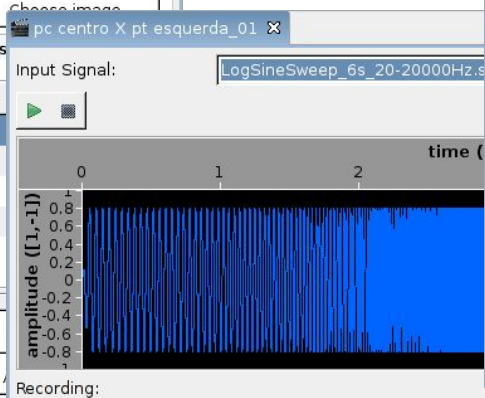
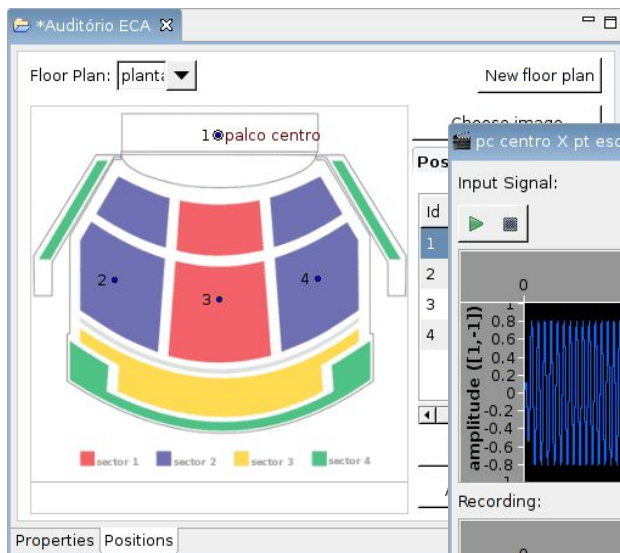
Bem-vindo à página do Grupo de Computação Musical do [Departamento de Ciência da Computação](#) do [IME-USP](#).

O grupo desenvolve pesquisa em diversas sub-áreas da computação musical e sonora. Neste site você poderá saber um pouco mais sobre as [pessoas](#), os [projetos](#) e [publicações](#).

Se estiver buscando material relacionado e textos online, dê uma olhada na [página de links](#).

Caso queira saber mais sobre o grupo ou nos encontrar pessoalmente, acesse a página de [pessoas](#) e contacte algum dos pesquisadores.

AcMus (2002)



freq [Hz]	63	125	250	500	1000	2000	4000	8000	A	C	Linear
C50 [db]	-0.839	-2.326	4.377	3.886	2.153	6.086	6.13	8.686	6.496	5.672	6.374
C80 [db]	0.542	-1.628	5.451	4.966	2.937	7.214	7.532	10.856	8.049	6.986	7.806
D50 [%%]	45.196	36.92	73.262	70.991	62.153	80.239	80.399	88.081	81.694	78.685	81.27
D80 [%%]	53.118	40.744	77.827	75.832	66.296	84.087	84.996	92.412	86.461	83.339	85.797
RDR [%%]	40.376	54.591	65.918	61.526	60.655	51.412	54.299	63.142	56.945	56.076	56.996
LFC [%%]	99.049	86.662	98.181	89.465	32.651	14.441	14.876	9.731	14.579	18.306	15.659
CT [ms]	110.18	116.59	52.765	59.693	57.551	31.761	29.37	15.544	27.136	33.655	28.851
EDT [s]	1.513	1.437	1.314	1.312	1.143	1.284	1.237	1.105	1.21	1.238	1.222
T20 [s]	1.496	1.203	1.212	1.184	1.175	1.148	1.075	0.883	1.071	1.123	1.103
T30 [s]	5.232	1.335	1.147	1.168	1.183	1.143	1.049	0.861	1.07	1.127	1.106
T40 [s]	10.353	1.4	1.221	1.218	1.217	1.169	1.052	0.862	1.086	1.178	1.328

BR: 1.445
TR: 0.521
ITDG: 80 ms

Properties Recording Impulse Response Parameters

Mobile - processos musicais interativos (2009 a 2013)

<http://gsd.ime.usp.br/andante>



- Andante Home
- The Andante FAQ
- Andante Publications
- Links Related to Andante
- Software

University of São Paulo--Computer Music Group

Andante

Andante combines novel research in art and technology in search of new forms of artistic expression. Utilizing state of the art technology for mobile autonomous agents and musical synthesis, musicians, computer scientists, and amateurs experience a novel art form: musical agents.

Andante is an open community of art and technology lovers who collaborate to create musical ideas, musical agents, and the enabling software infrastructure.

We are currently designing the system's software infrastructure.



The
Andante
Project



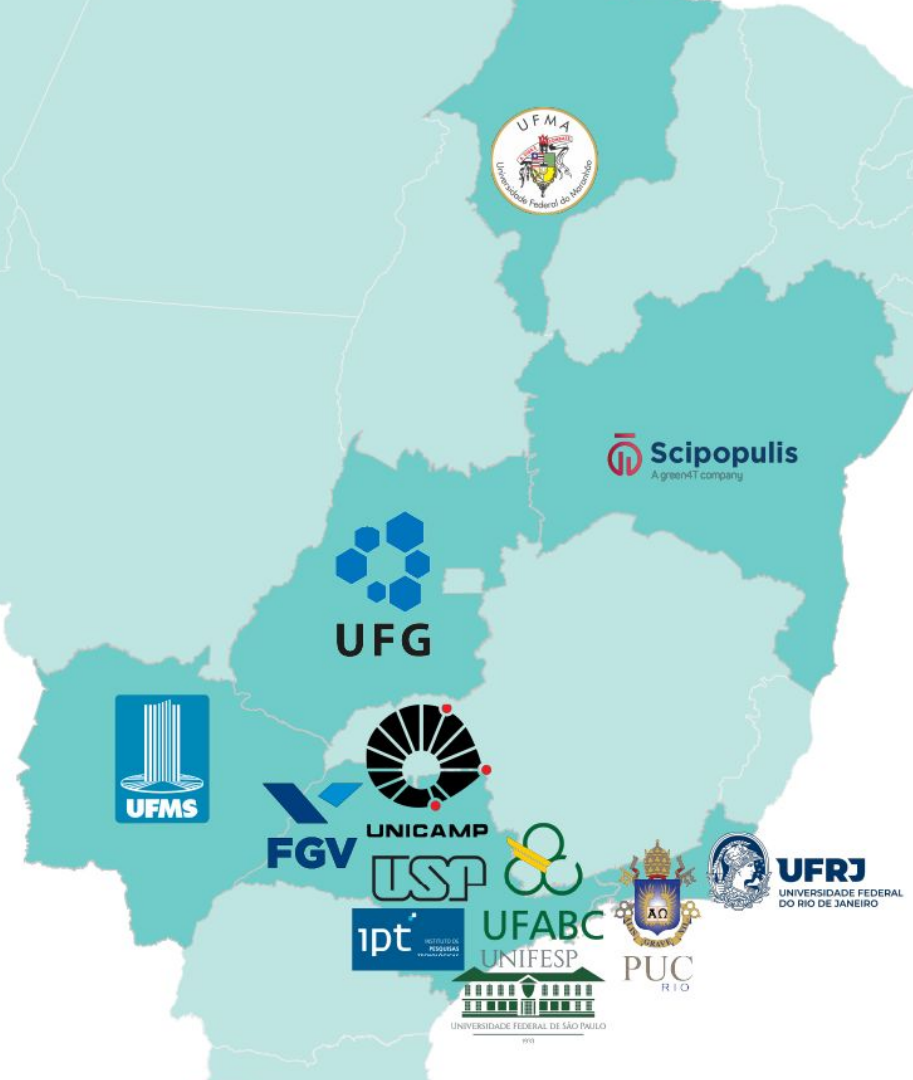
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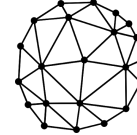
~100 pesquisadores e estudantes

- a. FAPESP / CNPq / CAPES
- b. Publicações científicas
- c. Software Livre
- d. Dados abertos
- e. Transferência para governos

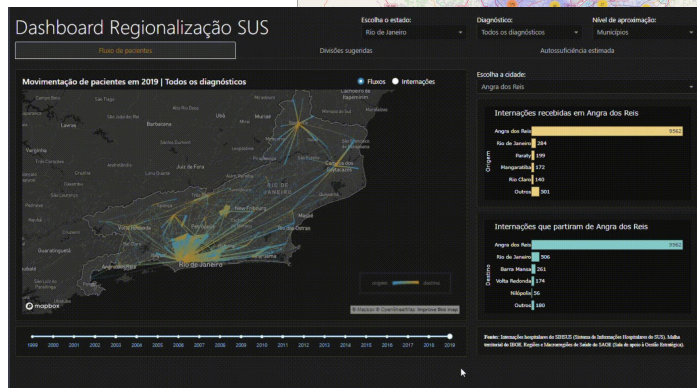
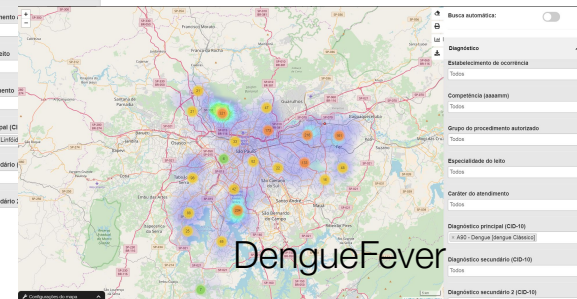
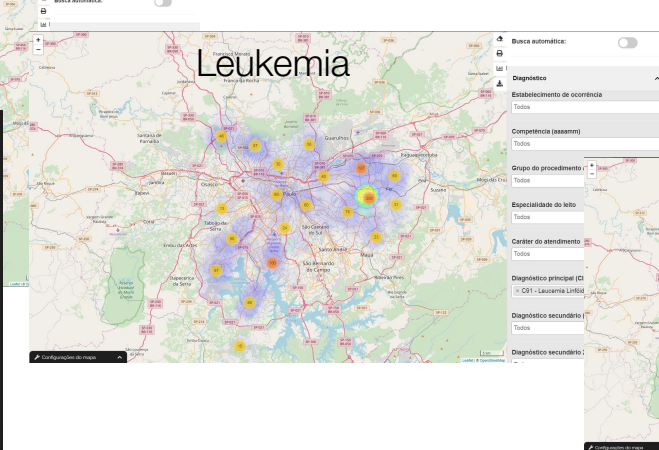
www.interscity.org



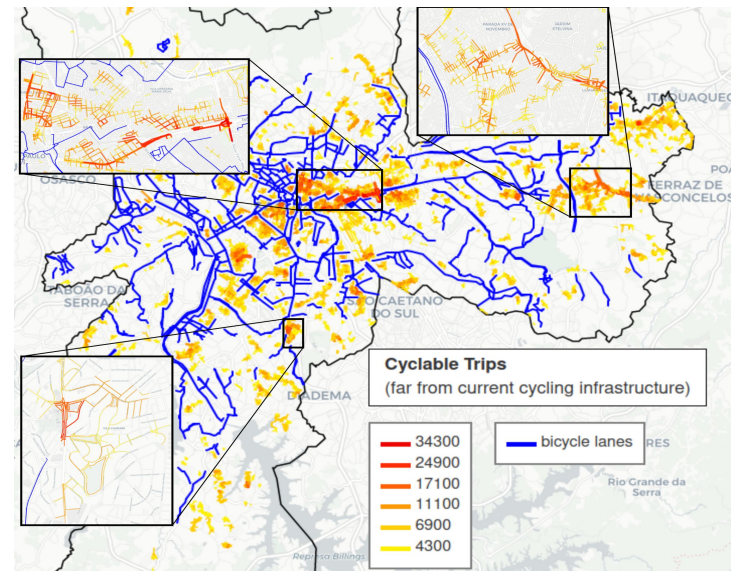
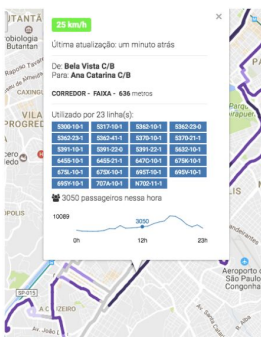
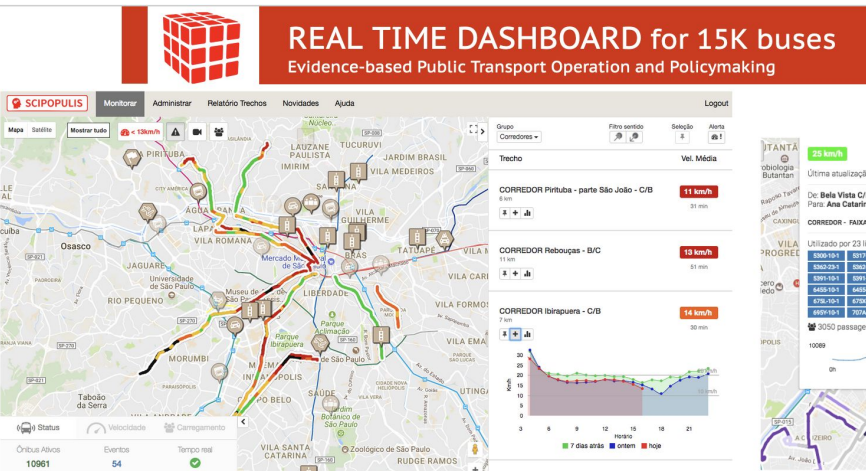
Leukemia



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Mobility



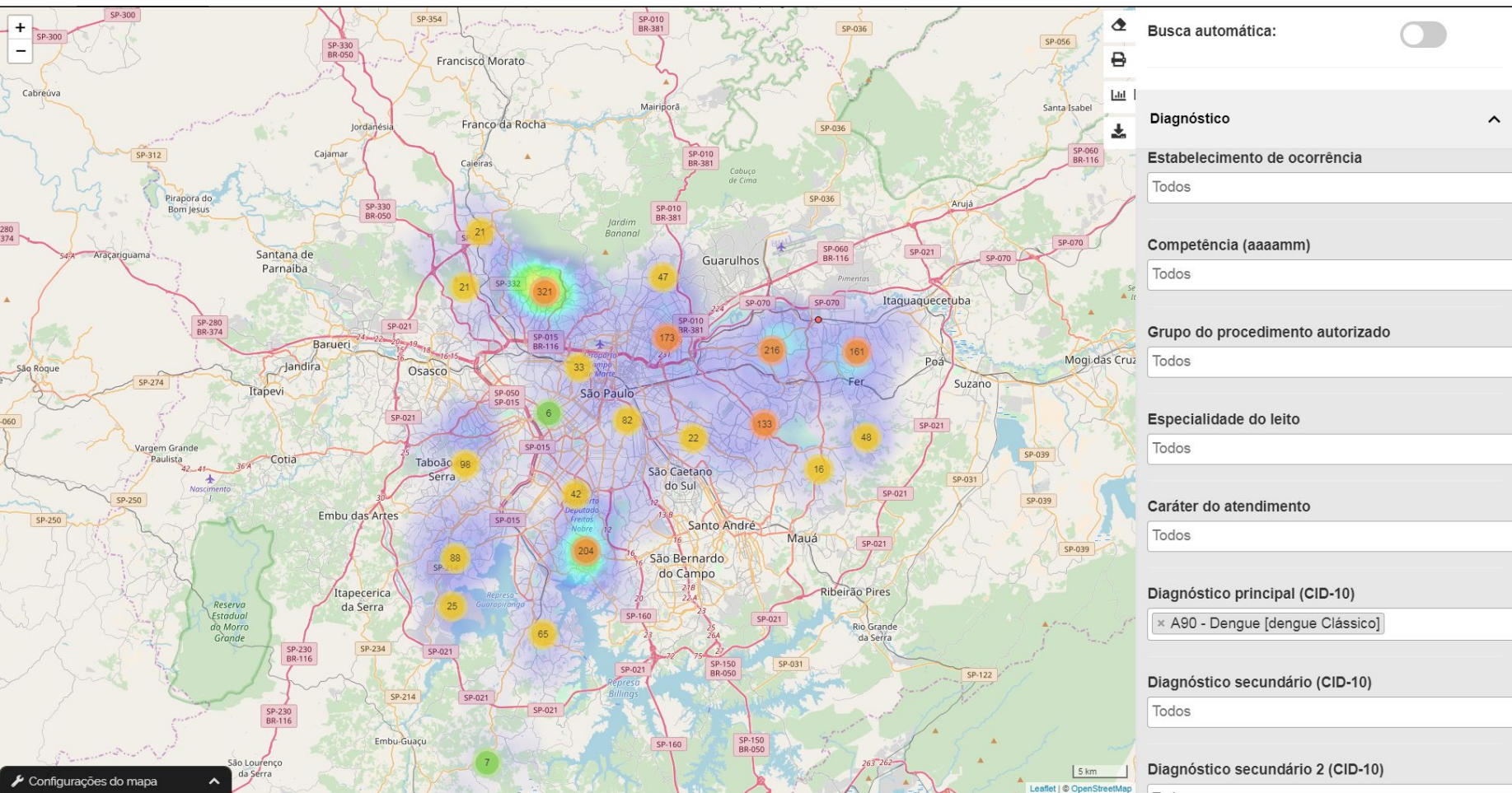
To learn more visit



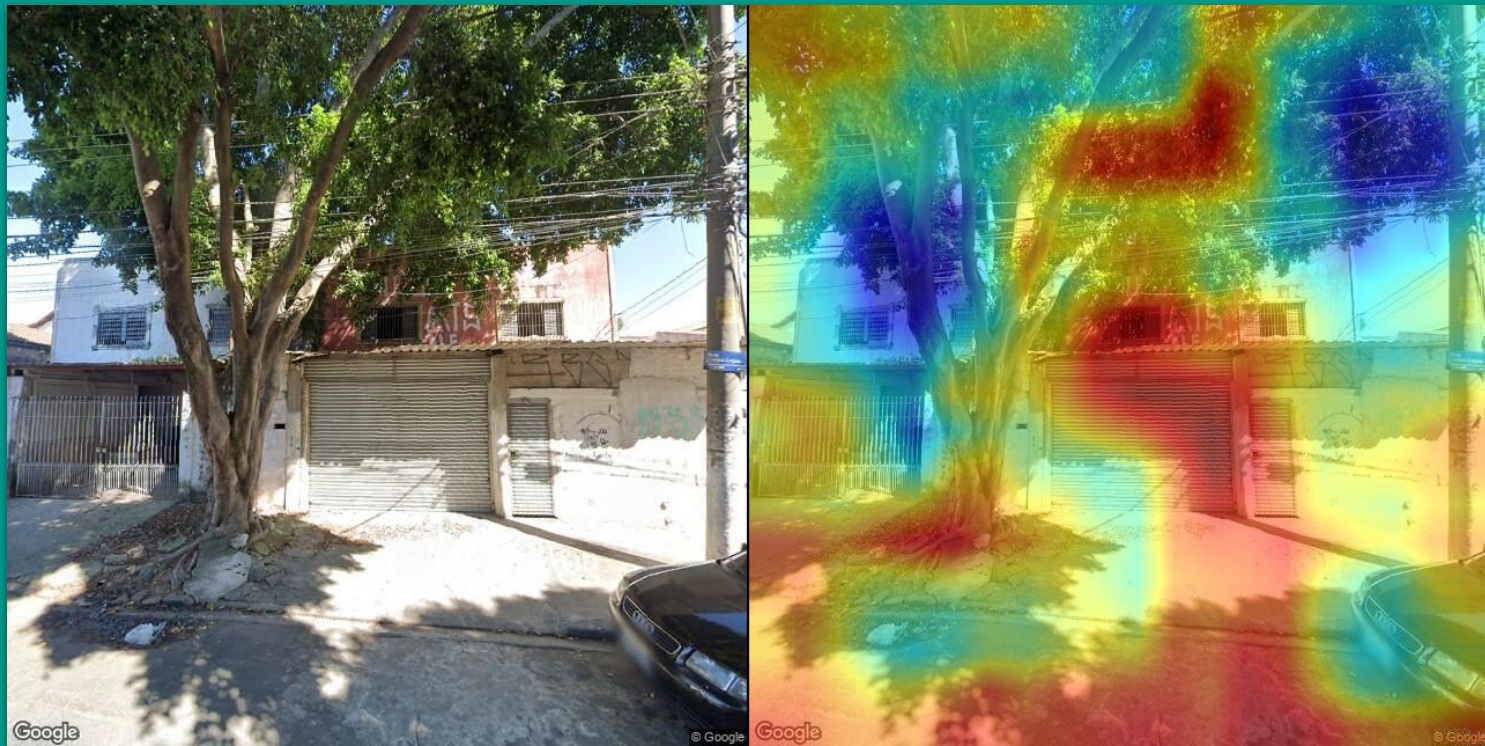
InterSCity.org

Fabio Kon - kon@ime.usp.br

IME - University of São Paulo, Brazil

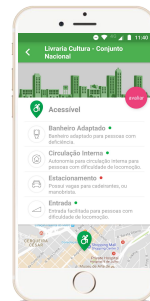
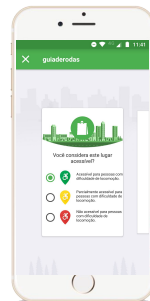
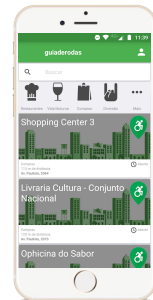
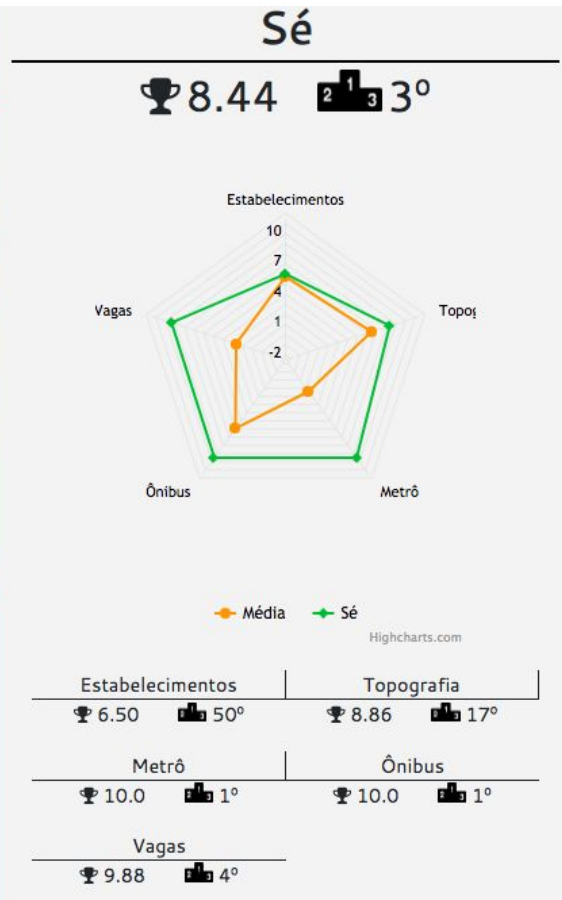
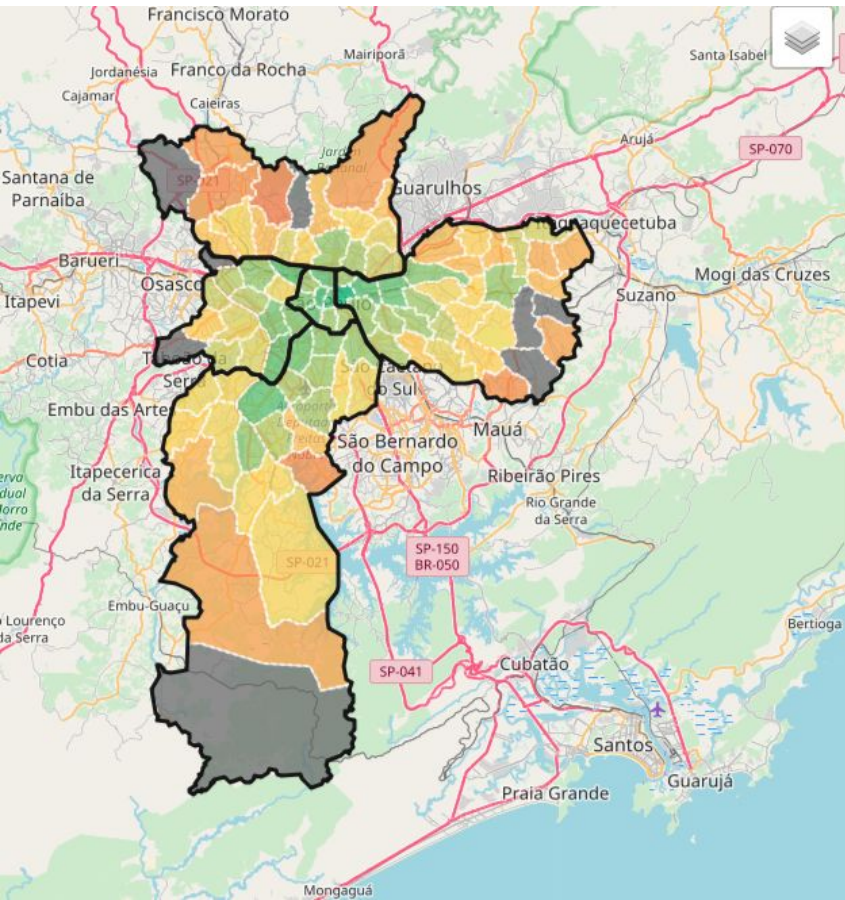


Detection of trees entangled in electric wires



GSV image on the left, Class Activation Map (with relation to intersections) on the right

Accessibility Ranking



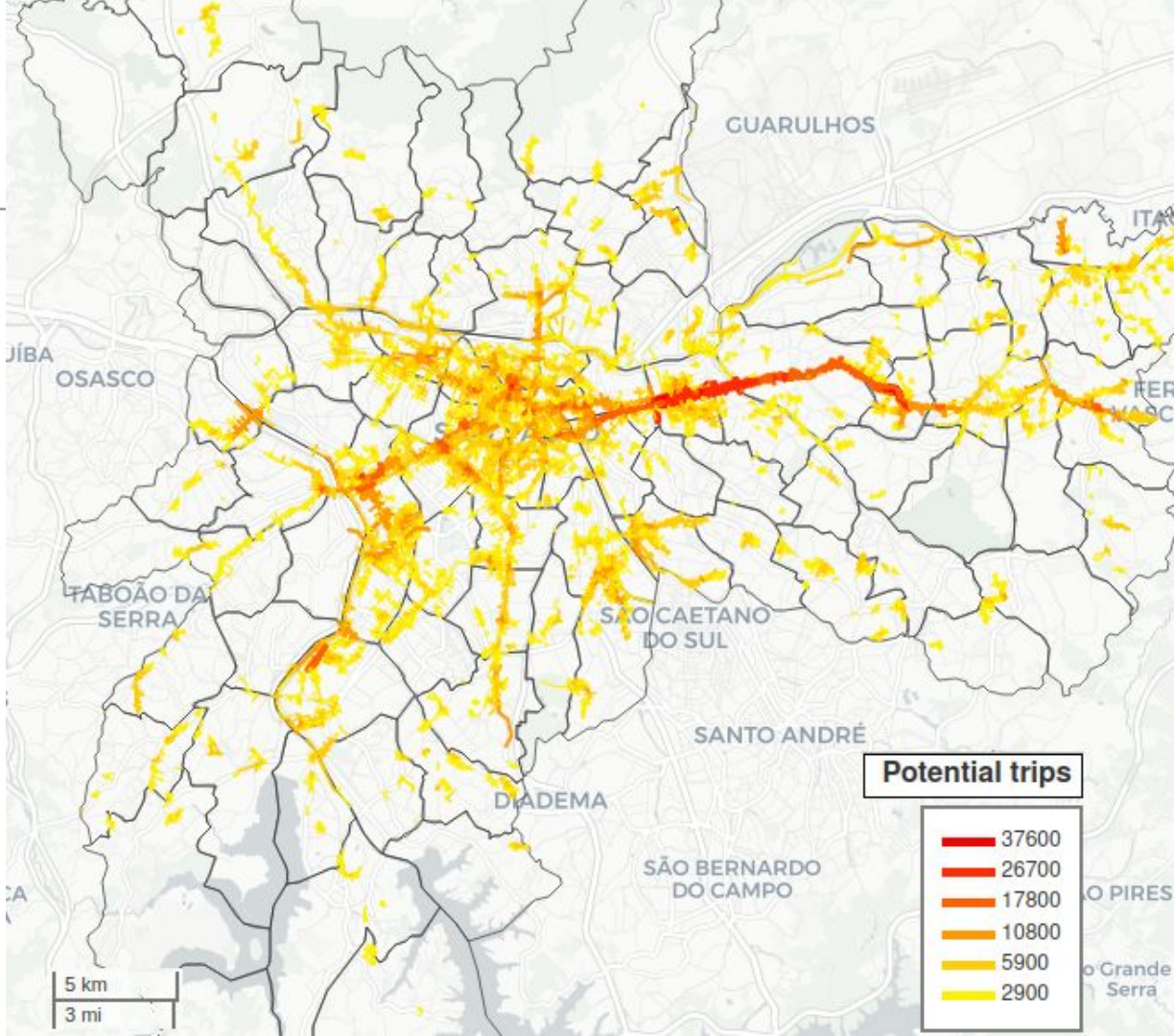
São Paulo cyclability index

Current bike trips/day:
225.000

What could we have if the
infrastructure were optimal:

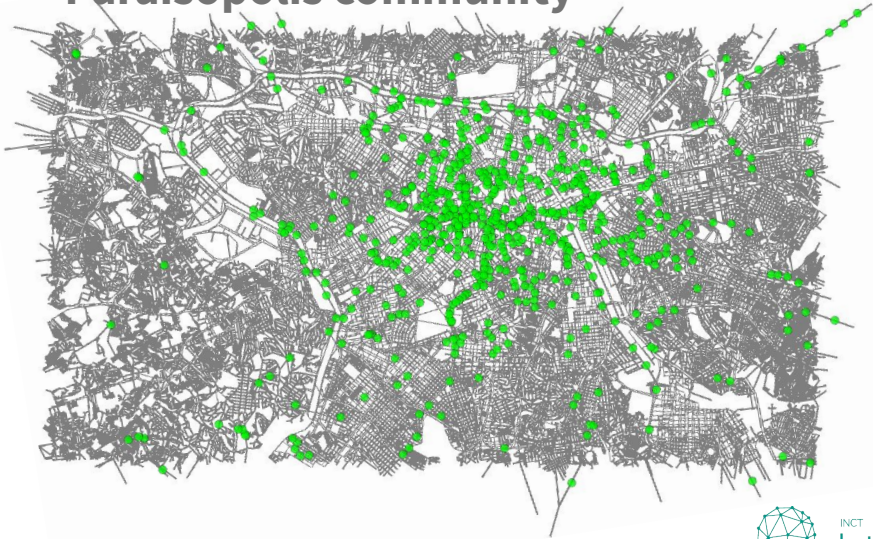
Very Easily Cyclable trips:
7.210.567
(15% of total trips)

Very Easily Cyclable trips
(converting from cars):
1.736.685
(14% of car trips)

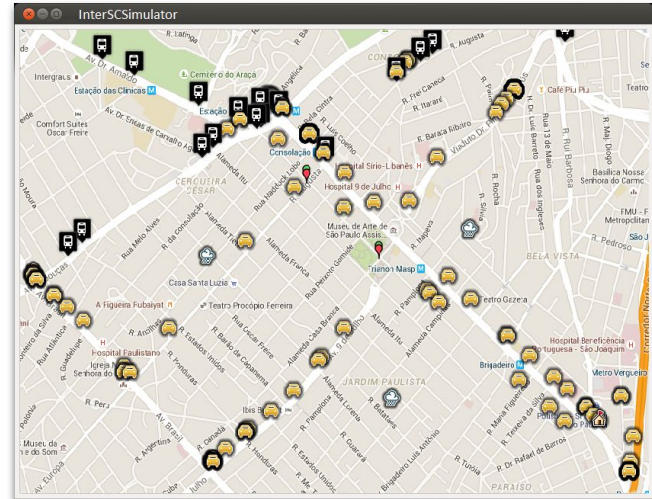


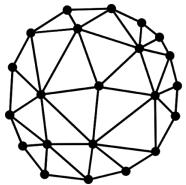
Large-scale City Simulator

- Impact of a new subway line on the Paraisópolis community



- Impact of AVs on Paulista Avenue





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