II ComplexNet

II Workshop and School on Dynamics, Transport and Control in Complex Networks - ComplexNet

Participant Institutions

Universidade de São Paulo

Humboldt-Universität zu Berlin

Instituto Nacional de Pesquisas Espaciais

Potsdam-Institut für Klimafolgenforschung

Universidade Federal de São Paulo

Universität Potsdam

Universidade Federal do ABC

Universidade Estadual de Campinas

ComplexNet - Introduction

The II ComplexNet – Workshop and School on Dynamics, Transport and Control in Complex Networks – ComplexNet - is a multidisciplinary event that aims to bring undergraduate and graduate students, postdocs and researchers interested a systemic view of the area, and covering fundamentals and applications. During the last decade, networks with complex topology have become a very powerful approach for understanding elaborate systems involving a very large number of agents that interact with each other. This approach has been used in various fields, from neuroscience and engineering, to sociology and economics. During this School, in the context of short courses, thematic lectures and panels the the basic principles of complex networks will be presented as well as the methodologies that allow them to be used for the understanding of the dynamics in systems related to a broad range of areas, including lasers, interaction between neurons, Earth system complexity, autonomous mobile robots, systems energy distribution.

Organizing Committee

Antônio Carlos Roque
Universidade de São Paulo
USP
Ribeirão Preto - SP

Elbert E. N. Macau
Instituto Nacional de
Pesquisas Espaciais - INPE
São José dos Campos - SP

Gilvan Sampaio
Instituto Nacional de
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Cachoeira Paulista - SP

Marcos G. Quiles
Universidade de São Paulo
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São José dos Campos - SP

Scientific Committee

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Elbert E. N. Macau
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Iberê Luiz Caldas
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USP

José A. Marengo Orsini
Instituto Nacional de
Pesquisas Espaciais - INPE

Jürgen Kurths
Potsdam Institute for Climate
Impact Research - PIK

Luciano da Fontoura Costa
Universidade de São Paulo
USP

Paulo R. C. Ruffino
Universidade Estadual
de Campinas – UNICAMP

Zhao Liang
Universidade de São Paulo
USP

Technical Support

Denise Arruda Geraldine Bosco
Josiane Freitas Julian Tejada
Rafael Arantes Renan Shimoura
Rodrigo Pena

Universidade de São Paulo - Ribeirão Preto

1 — General Information

1.1   Invited Lecturers - Mini Cursos

- **Angel Caputi**
  Departmento de Neurociencias Integrativas y Computacionales, IIBCE – Instituto de Investigaciones Biológicas Clemente Estable
  Montevideo, Uruguay
  Mini-Course 1 (MC-1): Introduction to Neuroscience

- **Bruno Gonçalves**
  Centre Physique Théorique, Aix-Marseille Université, Campus de Luminy
  Marseille, France
  Mini-Course 6 (MC-6): Dynamical Phenomena in Complex Networks

- **Michael Rosenblum**
  Institut für Physik und Astronomie, Universität Potsdam
  Potsdam, Germany
  Mini-Course 7 (MC-7): Synchronization Phenomena in Complex Networks

- **Paulo Ruffino**
  Departamento de Matemática, Instituto de Matemática, Estatística e Ciência da Computação, Universidade Estadual de Campinas
  Campinas, SP, Brazil
  Mini-Course 3 (MC-3): Introduction to Stochastic Dynamical Systems

- **Richard Wilson**
  Department of Computer Science, University of York
  York, United Kingdom
  Mini-Course 2 (MC-2): Introduction to Graph Theory and Pattern Recognition

- **Santo Fortunato**
  Department of Biomedical Engineering and Computational Science, Aalto University
  Aalto, Finland
  Mini-Course 5 (MC-5): Introduction to Complex Networks

- **Wilfran Moufouma-Okia**
  Met Office, Hadley Centre for Climatic Change
  Exeter, United Kingdom
  Mini-Course 4 (MC-4): Introduction to Climatology

1.2 Invited Lecturers (Talks)

- **Alexandre H. Kihara**
  alexandrekihara@gmail.com
  Centro de Matemática, Computação e Cognição, Universidade Federal do ABC
  Santo André, SP, Brazil
  Talk-02: Correlation of changes in mental states and configuration of neuronal networks: from connexin gene expression to Shannon entropy
- **Antonio C. Roque**
  antorior@ffclrp.usp.br
  Departamento de Física, Faculdade de Filosofia, Ciências e Letras de Ribeirão Preto, Universidade de São Paulo
  Ribeirão Preto, SP, Brazil
  Talk-14: Large-scale brain modeling
- **Carla Goldman**
  carla@if.usp.br
  Departamento de Física Geral, Instituto de Física, Universidade de São Paulo
  São Paulo, SP, Brazil
  Talk-15: On the transport of particles by molecular motors – some phenomenological aspects
- **Domingos H. U. Marchetti**
  marchett@if.usp.br
  Departamento de Física Geral, Instituto de Física, Universidade de São Paulo
  São Paulo, SP, Brazil
  Talk-17: Nonlinear instabilities of flame propagation in channels
- **Elbert E. N. Macau**
  elbert@lac.inpe.br
  Laboratório Associado de Computação e Matemática Aplicada, Instituto Nacional de Pesquisas Espaciais
  São José dos Campos, SP, Brazil
  Talk-13: Controlling Collective Behavior
- **Francisco A. Rodrigues**
  franciscoifsc@gmail.com
  Departamento de Matemática Aplicada e Estatística, Instituto de Ciências Matemáticas e de Computação, Universidade de São Paulo
  São Carlos, SP, Brazil
  Talk-18: Determining the critical coupling of explosive synchronization transitions in scale-free networks by mean-field approximations
- **Gilvan Sampaio**
  gilvan.sampaio@inpe.br
  Centro de Ciência do Sistema Terrestre, Instituto Nacional de Pesquisas Espaciais
  Cachoeira Paulista, SP, Brazil
  Talk-04: Feedbacks between vegetation and climate
- **Guillermo O. Obregón**
  guillermo.obregon@inpe.br
  Centro de Previsão de Tempo e Estudos Climáticos, Instituto Nacional de Pesquisas Espaciais Cachoeira Paulista, SP, Brazil
  Talk-07: Complex networks to represent and characterize climate

- **Henrique M. J. Barbosa**
  hmjbarbosa@gmail.com
  Departamento de Física Aplicada, Instituto de Física, Universidade de São Paulo
  São Paulo, SP, Brazil
  Talk-08: Atmospheric aerosols in Amazonia and land use change: from natural biogenic to biomass burning conditions
- **Iberê Caldas / Ricardo Viana**
  ibere@if.usp.br / rlv640@gmail.com
  Departamento de Física Aplicada, Universidade de São Paulo / Departamento de Física, Universidade Federal do Paraná
  São Paulo, SP, Brazil / Curitiba, PR, Brazil
  Talk-11: Shearless Transport Barriers in Tokamaks
- **José A. Marengo**
  jose.marengo@inpe.br
  Centro de Ciência do Sistema Terrestre, Instituto Nacional de Pesquisas Espaciais
  Cachoeira Paulista, SP, Brazil
  Talk-09: P0X - Main Scientific Results of the IPCC AR5 WG1: Scientific Basis of Climate Change
- **Lincoln Muniz Alves**
  lincoln.muniz@gmail.com
  Centro de Ciência do Sistema Terrestre, Instituto Nacional de Pesquisas Espaciais
  Cachoeira Paulista, SP, Brazil
  Talk-05: Statistical Analysis of extreme events in long-time series from Amazon basin
- **Luciano da F. Costa**
  ldfcosta@gmail.com
  Departamento de Física e Informática, Instituto de Física de São Carlos, Universidade de São Paulo
  São Carlos, SP, Brazil
  Talk-16: Linking Structure and Dynamics through Complex Networks
- **Manoel F. Cardoso**
  manoel.cardoso@inpe.br
  Centro de Ciência do Sistema Terrestre, Instituto Nacional de Pesquisas Espaciais
  Cachoeira Paulista, SP, Brazil
  Talk-10: Improvements of land-surface models to account for fire-climate feedbacks in the Amazon region
- **Marcos G. Quiles**
  quiles@unifesp.br
  Instituto de Ciência e Tecnologia, Universidade Federal de São Paulo
  São José dos Campos, SP, Brazil
  Talk-12: Network-Based Dynamic Semi-Supervised Learning
- **Pedro J. Catuogno**
  pedrojc@ime.unicamp.br
  Departamento de Matemática, Instituto de Matemática, Estatística e Ciência da Computação, Universidade Estadual de Campinas
  Campinas, SP, Brazil
  Talk-6: TBD

- **Reynaldo D. Pinto**
  reynaldo@ifsc.usp.br
  Departamento de Física e Informática, Instituto de Física de São Carlos, Universidade de São Paulo
  São Carlos, SP, Brazil
  Talk-03: Neurobiofísica no IFSC-USP
- **Roland Köberle**
  rk@ifsc.usp.br
  Departamento de Física e Informática, Instituto de Física de São Carlos, Universidade de São Paulo
  São Carlos, SP, Brazil
  Talk-01: Real-time vision

1.3   Selected Students (if applicable, poster title is indicated)

Alan Godoy Souza Mello UNICAMP, Campinas, SP **Poster title: Topology of social networks and efficiency of collective intelligence**	**Cinara Guellner Ghedini** ITA, São José dos Campos, SP **Poster title:Improving robustness of complex networks facing failures**
Alex Martins Universidade Mackenzie, São Paulo, SP **Poster title:Frequency transitions in synchronized neural networks**	**David Burth Kurka** UNICAMP, Campinas, SP **Poster title:nformation diffusion and processing in social networks**
Alexandre de Aquino Soares UFMG, Belo Horizonte, MG **Poster title:**	**Didier Augusto Vega** USP, São Carlos, SP **Regular graph construction for semi-supervised learning**
Alexsandro Schneider UFABC, Santo André, SP **Poster title: Self-sustained activity in small world neural networks**	**Edmilson Roque dos Santos** USP, São Carlos, SP **Poster title:**
Aline Pereira da Silva INPE, São José dos Campos, SP **Poster title: Propagation of information and dissemination of cultures**	**Eluã Ramos Coutinho** UFRRJ, Seropédica, RJ **Poster title:Climate prediction information with artificial neural networks**
André Seiji Wakate Teruya USP, São Paulo, SP **Poster title: Energetics of the normal modes of the nonhydrostatic atmosphere**	**Fabiano Berardo de Sousa** USP, São Carlos, SP **Poster title: Recurrent neural network model with complex network topology**
Antônio Mário de Torres Ramos USP, São Paulo, SP **Poster title: Model for complex dynamics of stomatal aperture on a leaf**	**Fabio Fernandes da Rocha Vicente** USP, São Paulo, SP **Poster title: Data integration in gene networks inference**
Ariadne de Andrade Costa USP, Ribeirão Preto, SP **Poster title: Self-organized criticality and neuronal avalanches in SIRS networks**	**Filipe Alves Neto** USP, São Carlos, SP **Poster title: Time series and complex network: parallel between properties**
Bilzã Marques de Araújo USP, São Carlos, SP **Poster title: Selecting nodes with inhomogeneous profile for NbSSL**	**Flora Vieira Balieiro** USP, Ribeirão Preto, SP **Poster title:Plant-plant network of woody species in a cerrado site**
Bruno Kim Medeiros Cesar USP, São Carlos, SP **Poster title: Performance analysis of rumour dissemination in complex networks**	**Gelson da Cruz Junior** UFG, Goiânia, GO **Poster title:**
Carlo Rondinoni USP, Ribeirão Preto, SP **Poster title: Brain connectivity in clearly lateralized epilepsy patients**	**Geraldine Góes Bosco** USP, Ribeirão Preto, SP **Poster title: (Non-)monotonicity in random sequential adsorption with one parameter of cooperation**
Cesar Henrique Comin USP, São Carlos, SP **Poster title:**	**Gerson Florence** USP, São Paulo, SP **Poster title: Underlying mechanisms of DBS in Parkinson's disease**

Gisele Helena Barboni Miranda USP, São Carlos, SP **Poster title:**	**Luiz Celso Gomes Junior** UNICAMP, Campinas, SP **Poster title:Complex Data Management System (CDMS)**
Glenda Michele Botelho USP, São Carlos, SP **Poster title:**	**Marcos Daniel Nogueira Maia** INPE, São José dos Campos, SP **Poster title: Sinchronization in complex networks: stability and persistence**
Gustavo Renê Martins de Oliveira ETEP, São José dos Campos, SP **Poster title:**	**Mariana Rodrigues Magalhães** UFV, Viçosa, MG **Poster title: Use of complex network in prediction of phenological events**
Gustavo Santo Pedro Pamplona USP, Ribeirão Preto, SP **Poster title: Analyzing the association between brain network topological parameters and intellectual performance**	**Mariane Barsi Andreeta** USP, São Carlos, SP **Poster title:**
Julián Tejada USP, Ribeirão Preto, SP **Poster title:**	**Marília Portela de Lima** UFPE, Recife, PE **Poster title: Design of optical networks using concepts of complex network**
Jefferson Rodrigo de Souza USP, São Carlos, SP **Poster title:**	**Martín Gómez Ravetti** UFMG, Belo Horizonte, MG **Poster title:**
João Eliakin Mota de Oliveira UNIFESP, São José dos Campos, SP **Poster title: A particle competition approach for detecting communities**	**Mayra Mercedes Zegarra Rodriguez** USP, São Carlos, SP **Poster title:**
Joaquim Cezar Felipe USP, Ribeirão Preto, SP **Poster title:**	**Murillo Guimarães Carneiro** USP, São Carlos, SP **Poster title: High level classification totally based on complex networks**
Jonathan Cardoso Silva UFG, Goiânia, GO **Poster title:**	**Osame Kinouchi Filho** USP, Ribeirão Preto, SP **Poster title: New indexes for the scientific production of countries**
Jorge Guerra Pires Sem instituição, Ouro Preto, MG **Poster title:On the mathematical modelling in gene expression estimation**	**Oscar Alonso Cuadros Linares** USP, São Carlos, SP **Poster title:**
José Mario Vicensi Grzybowski UFFS, Uruguaiana, RS **Poster title:**	**Paulo Sérgio Martins Pedro** UNICAMP, Campinas, SP **Poster title: A simple model for cascading failures in scale-free networks**
Juliana Marta Rodrigues de Souza UNICAMP, Campinas, SP **Poster title:Recovering the diffusion coefficient from ecological data**	**Paulo Victor Santos Souza** UFF, Niterói, RJ **Poster title: Calculating the drag on a cylinder in a wind tunnel**
Kayo Fernandes Pimentel UFG, Goiânia, GO **Poster title:**	**Rafael Ribaski Borges** UEPG, Ponta Grossa, PR **Poster title: Chaos suppression in a Hindmarsh-Rose network**
Leonardo Nascimento Ferreira USP, São Carlos, SP **Poster title:**	**Rafael Tuma Guariento** USP, São Carlos, SP **Poster title:**
Leônidas Sandoval Junior INSPER, São Paulo, SP **Poster title:Structure and causality relations in a network of financial companies**	**Raul Ossada** USP, Pirassununga, SP **Poster title:**
Lilian Berton USP, São Carlos, SP **Poster title:Graph construction for semi-supervised learning**	**Rebeca Cardim Falcão** UFPE, Recife, PE **Poster title: Statistical model of impact fragmentation on a disk**
Lucas Campanari Simplício dos Santos USP, São Paulo, SP **Poster title:**	**Renan Oliveira Shimoura** USP, Ribeirão Preto, SP **Poster title:**
Luciana Babberg Abiuzi ITA, São José dos Campos, SP **Poster title:Local adaptive topology control in mobile ad hoc networks**	**Ricardo Sovek Oyarzabal** UEPG, Ponta Grossa, PR **Poster title: Chaotic advection in fusion plasmas**
Luis Carlos Tapia Herrera UNICAMP, Campinas, SP **Poster title:Resting state networks from mesoscale to macroscale**	**Roberto Alves Gueleri** USP, São Carlos, SP **Poster title: Clustering driven by dynamics in space of extended features**

Roberto Antonio Vosgerau	Thomas Gonçalves Fortes
UFTPR, Curitiba, PR	UNESP, Guaratinguetá, SP
Poster title:	**Poster title:**
Rodrigo Felipe de Oliveira Pena	**Thomas Kauê Dal'Maso Peron**
USP, Ribeirão Preto, SP	USP, São Carlos, SP
Poster title:	**Poster title: Cluster explosive synchronization in complex networks**
Sandy Moreira Porto	**Tiago Alves Schieber de Jesus**
INPE, São José dos Campos, SP	UFMG, Belo Horizonte, MG
Poster title: Methodology for evolution of communities in dynamic network	**Poster title: Simulating the dynamics of scale-free networks via optimization algorithm**
Saullo Haniell Galvão de Oliveira	**Vagner dos Santos**
UNICAMP, Campinas, SP	UEPG, Ponta Grossa, PR
Poster title:	**Poster title: Analysis of periodic and chaotic regions in parameter space**
Thiago Peixoto Leal	**Victor Pedrosa Braga Cavalcanti**
UFSJ, São João del-Rei, MG	UFPE, Recife, PE
Poster title:Differential evolution algorithm for community detection	**Poster title: Poster title: Disordered wires using stochastic differential equations**

1.4 Program

Time	Monday 21/10	Tuesday 22/10	Wednesday 23/10	Thursday 24/10	Friday 25/10	Saturday 26/10
08h00-08h30	——	Poster Session	Talk-07	Talk-11	Talk-15	——
08h30-09h00	——	Poster Session	MC-5/1	MC-5/2	MC-2/3	MC-7/3
09h00-09h30	——	Poster Session	MC-5/1	MC-5/2	MC-2/3	MC-7/3
09h30-10h00	——	Poster Session	MC-5/1	MC-5/2	MC-2/3	MC-7/3
10h00-10h20	Opening Ceremony	**Coffee-Break**	**Coffee-Break**	**Coffee-Break**	**Coffee-Break**	**Coffee-Break**
10h20-10h50	Talk-01	Talk-04	Talk-08	Talk-12	Talk-16	Talk-18
10h50-12h20	MC-1/1	MC-4/1	MC-4/2	MC-1/3	MC-7/1	MC3/3
12h20-14h00	**Lunch**	**Lunch**	**Lunch**	**Lunch**	**Lunch**	**Lunch**
14h00-14h30	Talk-02	Talk-05	Talk-09	Talk-13	Talk-17	MC-6/3
14h30-16h00	MC-2/1	MC-2/2	MC-1/2	MC-5/3	MC-7/2	MC-6/3
16h00-16h20	**Coffee-Break**	**Coffee-Break**	**Coffee-Break**	**Coffee-Break**	**Coffee-Break**	Final Discussion and Closing
16h20-16h50	Talk-03	Talk-06	Talk-10	Talk-14	MC-6/2	——
16h50-18h20	MC-3/1	MC-3/2	MC-4/3	MC-6/1	Projects Discussions	——

1.5 General Information

1.5.1 Location

The school will be held at Instituto de Estudos Avançados Polo Ribeirão Preto (IEA) and Faculdade de Filosofia, Ciências e Letras de Ribeirão Preto (FFCLRP) of the University of São Paulo (Universidade de São Paulo – USP), Brazil.

> II ComplexNet - Instituto de Estudos Avançados da USP Polo de Ribeirão Preto (IEA/RP), Centro de Informática de Ribeirão Preto (CIRP/USP)

Courses and talks from Monday to Friday will be held at the auditorium of IEA/RP. The poster session on Tuesday morning will be held at the entrance hall of the Department of Computer Sciences and Mathematics (DCM building). The Saturday sessions will be held at the Andre Jacquemin auditorium of FFCLRP.

1.5.2 Meals

The options for having a meal within the university campus are the main refectory (Restaurante Central) and one of the campus' canteens, of which the closest to IEA/RP are "Cantina do Valter" and "Cantina da FEA". The main refectory has only one menu option per meal, which is served in a tray. Beverages (water or fruit juice) are served only for those who bring their own cups. Canteens have self-service meals where food is paid based on its weight, ready-made dishes ("prato feito"), sandwiches and Brazilian snacks ("salgadinhos"). "Cantina do Walter" will offer a 10% discount on self-service meals for those who wear their ComplexNet badges during the event.

> - Cantina do Valter
> - Cantina da FEA

The main refectory is closed on Sunday and the campus canteens are closed both on Saturday afternoon and Sunday. There are several restaurant and bar options in town, and a list of them can be found at the end of the booklet.

1.5.3 Coffe-Breaks

There will be two free coffee-breaks per day, one at mid-morning and the other at mid-afternoon (except on Monday and Saturday, when there will be only one coffee-break per day). They will be served at the entrance hall of the IEA/RP.

1.5.4 Transportation

Below you will find a list of some bus lines that might help you to move around Ribeirão Preto. A bus ticket ("bilhete" or "passagem") costs R$ 2.80 (two reals and thirty cents) and can be paid inside the bus by cash.

Airport ↔ Downtown/CentralBusStation.

Line code	
702- RIBEIRAO VERDE	Airport → Downtown/Central Bus Station
402- JARDIM SALGADO FILHO I	Airport → Downtown/Central Bus Station
302- JD AEROPORTO	Airport → Downtown/Central Bus Station

All these lines depart/arrive from/to Av. Brasil. The link between the Airport and the bus stop at Av. Brasil is provided by the free public microbus service ("Leva e Trás") called ROTA 72 – AEROPORTO.

Downtown ↔ VitaetPax/USP.

Line code	
370 - JARDIM RECREIO	Jd Recreio (Vita et Pax) → USP → Downtown ;
307 C. UNIVERSITARIA	Downtown → USP → Jd Recreio (Vita et Pax)

Central Bus Station ↔ USP.

Line code	
207-HOSPITAL DAS CLÍNICAS	USP (Hospital Bus Station) → Downtown
499 - CIRCULAR	USP → Central Bus Station

Airport (AEROPORTO)	=	(Av. Brasil)
Downtown (CENTRO)	=	(Rua Florêncio de Abreu, Catedral)
Central Bus Station (TERMINAL RODOVIÁRIO)	=	(Av. Jerônimo Gonçalves).

If you are at the Airport Leite Lopes and want to get to USP or Vita et Pax you first have to take a bus to go downtown (or to the Central Bus Station) and then take another bus to USP or Vita et Pax. From the main entrance of the airport, take the microbus ROTA 72 – AEROPORTO. It will take you from the main entrance of the airport to the nearest bus stop. Ask the driver to stop in front of CETERP (Av. Brasil). From there you can take one of the buses indicated above to go downtown.
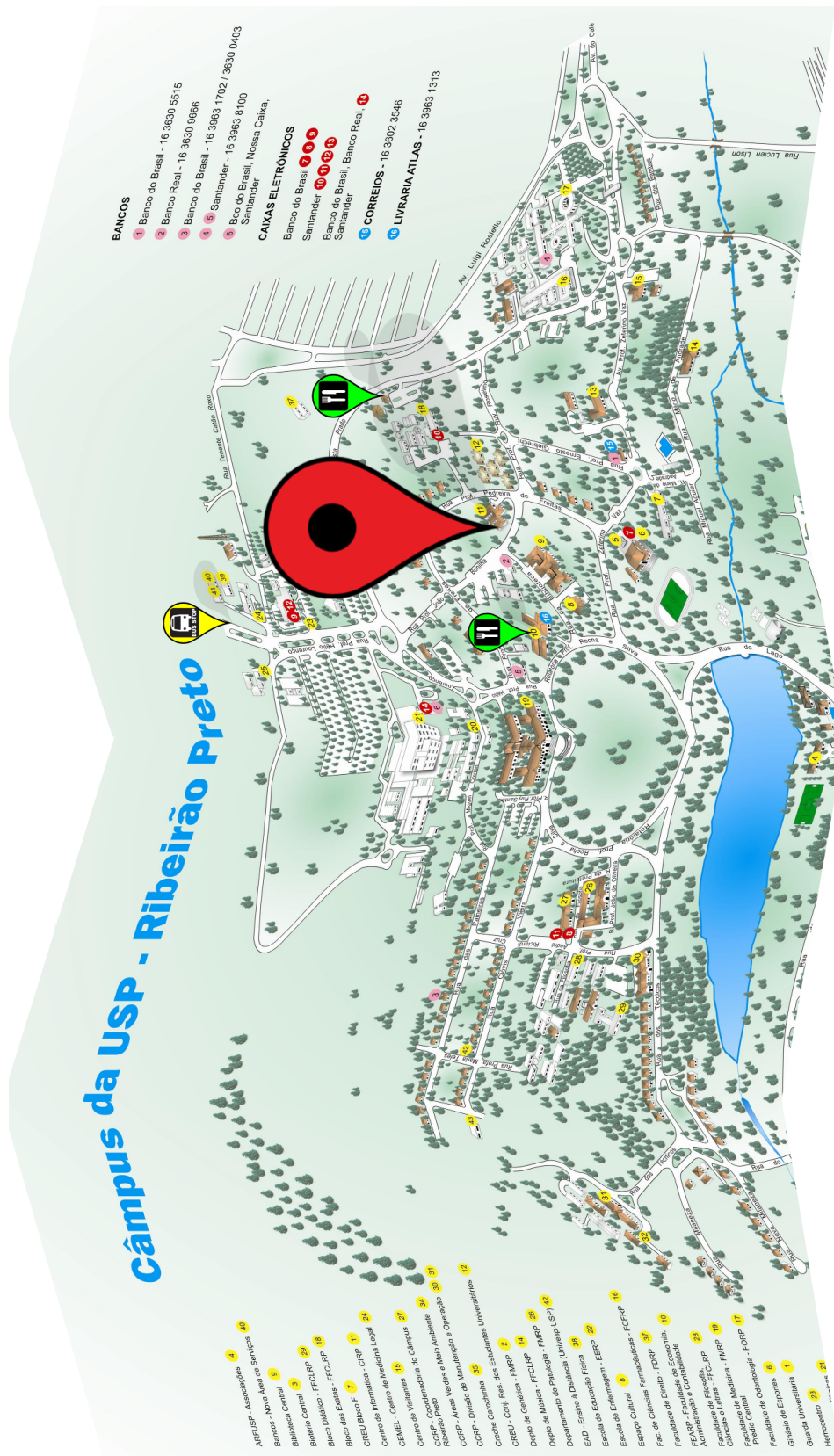
If you are at the Central Bus Station and want to get to USP or Vita et Pax you may take a bus at Rua Florêncio de Abreu (Florencio de Abreu Street) or at Praça da Catedral (Cathedral Square).

A taxi ride from the Airport Leite Lopes to downtown Ribeirão Preto should cost about R$ 50.00, and a taxi ride from downtown to USP or Vita et Pax should cost about R$ 15.00.

> (!) Website with information about bus schedules and routes:
> *http://www.ribeiraopreto.sp.gov.br/transerp/central/i07indi.php*

> (!) PDF guide with information about bus schedules and routes:
> *http://www.ritmoribeirao.com.br/showdocument?id=84show=true*

1.5.5 Map of the Campus

BANCOS
1 Banco do Brasil - 16 3630 5515
2 Banco Real - 16 3630 9666
3 Banco do Brasil - 16 3963 1702 / 3630 0403
4 5 Santander - 16 3963 8100
6 Bco do Brasil, Nossa Caixa, Santander

CAIXAS ELETRÔNICOS
Banco do Brasil 7 8 9
Santander 10 11 12 13
Banco do Brasil, Banco Real, 14 Santander

16 CORREIOS - 16 3602 3546
15 LIVRARIA ATLAS - 16 3963 1313

câmpus da USP - Ribeirão Preto

ARFUSP - Associações 4
Bancos - Nova Área de Serviços 9
Biblioteca Central 3
Biotério Central - FFCLRP 29
Bloco Didático - FFCLRP 18
Bloco das Exatas - FFCLRP 7
CREU | Bloco F 7
Centro de Informática - CIRP 11
CIRD | CIRP 24
Centro de Medicina Legal
CEMEL - Centro de Medicina Legal 15
Centro de Visitantes
Centro de Coordenadoria do Campus 27
CCRP - Coordenadoria do Campus 34
CCRP - Áreas Verdes e Meio Ambiente Ribeirão Preto
CCRP - Áreas Verdes e Meio Ambiente e Operação
CCRP - Divisão de Manutenção e Operação 35
Creche Carolinha 12
CREU - Conj. Res. dos Estudantes Universitários
CREU - Conj. Res. dos Estudantes Universitários
Depto de Genética - FMRP 2
Depto de Música - FFCLRP 14
Departamento de Patologia - FMRP 26
Departamento de Patologia (Univrsp-USP)42
EAD - Ensino à Distância 38
Escola de Educação Física 22
Escola de Enfermagem - EERP
Escola de Enfermagem - EERP 8
Espaço Cultural
Fac. de Ciências Farmacêuticas - FCFRP 16
Fac. de Ciências Farmacêuticas - FCFRP 37
Fac. de Direito - FDRP 10
Faculdade de Economia.
Faculdade de Contabilidade
FEARP - Faculdade de Economia, Administração e Contabilidade 28
Faculdade de Filosofia, Ciências e Letras - FFCLRP 19
Faculdade de Medicina - FMRP 17
Pério Central
Faculdade de Odontologia - FORP
Faculdade de Esportes 6
Ginásio de Esportes 1
Guarda Universitária 23
Hemocentro 21
30 31 12

🔴 Centro de Informática de Ribeirão Preto (CIRP/USP

🟡 Hospital Bus Station

🟢 Restaurants

1.5.6 Transportation inside the Campus

The campus of USP at Ribeirão Preto has an internal transportation system. Bus schedules are given below:

Circular	Garagem	Av Bandeirantes	Restaurante Central	Hospital das Clínicas	Fac. De Odontologia	Restaurante Central	Hospital das Clínicas
1	6h20	6h25	6h35M	6h40	6h50	6h55M	7h00
2	6h45	6h50	7h00M	7h05	7h15	7h20M	7h25
1	7h10	7h15	7h25M	7h30	7h40	7h45M	7h50
2	7h35	7h40	7h50M	7h55	8h05	8h10M	8h15
1	8h00	8h05	8h15M	8h20	8h30	8h35M	8h40
2	8h25	8h30	8h40M	8h45	8h55	9h00M	9h05
1	8h50	8h55	9h05M	9h10	-	-	-
2	9h15	9h20	9h30M	9h35G	-	-	-
1	9h20	9h25G	-	-	-	-	-
1	10h30	10h35	10h45	10h50	11h00	11h05	11h10
2	10h55	11h00	11h10	11h15	11h25	11h30	11h35
1	11h20	11h25	11h35	11h40	11h50	11h55	12h00
2	11h45	11h50	12h00	12h05	12h15	12h20	12h25
1	12h10	12h15	12h25	12h30	12h40	12h45	12h50
2	12h35	12h40*	12h55	13h00	13h10	13h15	13h20
1	13h00	13h05*	13h20	13h25	13h35	13h40	13h45G
2	13h30	13h35	13h45	13h50	14h00	14h05	14h10
1	14h25	14h30	14h35	14h40	14h50	14h55	15h00
2	14h20	14h25G	-	-	-	-	-
1	15h10	15h15	15h25	15h30	15h40	15h45	15h50
2	15h50	-	-	15h55	16h05	16h10	16h15
1	16h00	16h05	16h15*	16h25	16h35	16h40	16h45
2	16h25	16h30	16h40*	16h50	17h00	17h05	17h10
1	16h55	17h00	17h10	17h15	17h25	17h30	17h35
2	17h20	17h25	17h35	17h40	17h50	17h55	18h00
1	17h45	17h50	18h00*	18h10	18h20	18h25	18h30
2	18h10**	18h15	18h25*	18h35	18h45	18h50	18h55
1	-	18h45	18h55	19h00	19h10	19h15	19h20G
2	-	19h10	19h20	19h25	19h35	19h40	19h45
2	-	19h55G	-	-	-	-	-
2	21h40	-	-	-	21h45	21h50M	21h55
2	-	22h05	-	-	22h15	22h20M	22h25
2	-	22h35	-	-	22h45	22h50M	22h55
2	-	23h05G	-	-	-	-	-

Circular	FORP	Restaurante	FFCLRP
3	10h30	10h40	10h50
3	11h00	11h10	11h20
3	11h30	11h40	11h50
3	12h00	12h10	12h20
3	12h30	12h40	12h50
3	13h00	13h10	13h20
3	13h30	13h40	13h50

Additional Information
  Restaurants and bars
  Shopping Centers
  Banks, ATM machines and Currency
  Exchange
  Supermarkets
  Markets
  University Post Office
  Photocopy
  24H Pharmacy
  Car Rental
  24H Taxi
  Airport
  Bus Station
  Emergency Phones
  Tourism and Leisure

2 — Additional Information

2.1 Additional Information

2.1.1 Restaurants and bars

Ribeirão Preto is well served with restaurants and bars of all types and for every budget. Updated lists of restaurants and bars can be found at restaurant and bar websites in the internet.

2.1.2 Shopping Centers

Iguatemi Shopping Center Avenida Luiz Eduardo Toledo Prado, 900 Tel: (16) 3913-2900	**RibeiraoShopping Shopping Center** Av.Cel. Fernando Ferreira Leite, 1540 Tel: (16) 3602-7000
Novo Shopping Center Av. Costábile Romano, 1500 Tel: (16) 3629-7077	**Santa Úrsula Shopping Center** Rua São José, 933 Tel: (16) 3607-0400
Note: Shopping centers have food courts where one can find a wide range of fast food restaurants	

2.1.3 Banks, ATM machines and Currency Exchange

USP: there are three bank branches at USP: Bradesco, Santander Bank (where one can exchange foreign currency) and Banco do Brasil (see campus map).

Shopping Centers: in shopping centers one can find ATM machines of major Brazilian banks. There are currency exchange dealer companies (Confidence Câmbio, tel: (16) 3931-5777) at the RibeirãoShopping and Santa Úrsula Shopping Centers. Avenida do Café: there is a Banco do Brasil branch at this avenue.

Downtown area, Av. Nove de Julho and Av. Presidente Vargas: all major Brazilian banks have their main Ribeirão Preto offices at downtown. Branches of most banks also can be found at Aves. Nove de Julho and Presidente Vargas.

2.1.4 Supermarkets

Carrefour Bairro Rua Rui Barbosa, 825 (downtown) Tel: 0800-784-2822	**Carrefour Via Norte** Rua Municipal, 252 Tel: (16) 3977-3400
Carrefour RibeirãoShopping Av. Coronel Fernando Ferreira Leite, 1540 Tel: (16) 3913-9988	**Extra (24 hours)** Av. Presidente Vargas, 1617 Tel: (16) 3602-0287
Pão de Açúcar Independência (24 hours) Av. Independência, 1765 Tel: (16) 3623-0921	**Wall Mart** Av. Pres. Castelo Branco, 2400 Tel: 0800-7710979

2.1.5 Markets

Mercado Central	**Mercadão da Cidade**
Rua São Sebastião, 130 (downtown)	Av. Lygia Latuf Salomão, 605
Tel: 3610-8739	Tel: (16) 9234-8494

2.1.6 University Post Office

The location of the university post office can be found at the campus map. It is open daily from 9:00 am to 5:00 pm.

2.1.7 Photocopy

There is a privately owned photocopy facility at the first floor of Central Library. The opening hours are 9am-12pm and 2pm-6pm. The cost of a single-page copy is R$ 0,20 (twenty cents). There are also photocopy and printing places at Via do Café.

2.1.8 24H Pharmacy

Droga Líder	**Drogão Super**
Av. Nove de Julho, 1515	Av. Nove de Julho, 1226
Tel: (16) 3911-2224	Tel: (16) 3625-1979

2.1.9 Car Rental

Avis Tel: (16) 3636-0100/0800 198456	**Hertz** Tel: (16) 2102-1000
Localiza Tel: (16) 3626-2266/0800 99 2000	**Unidas** Tel: (16) 3621-8890

2.1.10 24H Taxi

Coopertáxi Tel: (16) 3627-7000/0800 183848	**Táxi Aeroporto** Tel: (16) 3626-2451
Táxi Ribeirão Shopping Tel: (16) 3623-6555	**Rádio Táxi Santa Cruz** Tel: (16) 3911-3000

2.1.11 Airport

"Leite Lopes" Airport Tel: (16) 3626-3376	**Passaredo** Tels.: (16) 3514-7100/3969-3004
TAM Tels.: (16) 3605-0900/3626-2639	**TRIP** Tel.: (16) 3969-2224

2.1.12 Bus Station

"Rodoviária" Tel: (16) 3625-7386	**Cometa** Tels.: (16) 3625-1631 3625-1094
Rápido Ribeirão Preto Tel: (16) 610-6350	

2.1.13 Emergency Phones

Fire Brigade Tel: 193/(16) 3911-1018	**Health Emergency** Tel: 192
Military Police Tel: 190	**Transit** Tel: 194

2.1.14 Tourism and Leisure

Pedro II Theatre (Third largest opera house in Brazil) Praça XV de Novembro Tel: (16) 3977-8111	**Coffee and Historic Museums** Campus of the University of São Paulo Tel: (16) 3633-1986 Note: on Sunday mornings there is an open air show by a "chorinho" band
Curupira City Park Av. Costábile Romano s/n Tel: (16) 3636-2283	**MARP – Art Museum of Ribeirão Preto** Rua Barão do Amazonas, 323 Tel: (16) 635-2421
Fábio Barreto Municipal Woods (also Belvedere, Japanese Garden, Zoo and Botanic Park) Rua Liberdade s/n Tel: (16) 3636-2283/3636-2545	**Image and Sound Museum** Rua São José, 1859 Tel: (16) 3623-6755/3623-9659
Instituto Figueiredo Ferraz (http://www.institutofigueiredoferraz.com.br) Rua Maestro Ignácio Stabile, 200 Tels: (16) 3623-2261/3623-2262	**Galeria Marcelo Guarnieri** http://www.galeriamarceloguarnieri.com.br/ Rua Nelio Gimaraes, 1290 Tel: (16) 3632-4046/3625-1216
Alto do São Bento Park (Arena theatre, Municipal theatre, House of Culture) Praça Alto do São Bento s/n Tel: (16) 3625-6841	**SESC** (houses several cultural events and shows) Rua Tibiriça, 50 Tel: (16) 3977-4477
House of painter Cândido Portinari Brodósqui (30 km from Ribeirão Preto) Praça Cândido Portinari, 298 Tel: (16) 3664-4284	**Bom Jesus da Cana Verde Church** Batatais (42 Km from Ribeirão Preto) Tel: (16) 3761-2489